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#### ABSTRACT

The fourth of four volumes of appendixes to the final technical report of the Great Lakes Region Special Education Instructional Materials Center (GLR SEIMC) consists of 21 reports (1973-74) on the classification, development, and evaluation of auditory learning materials; a report of activities and materials from the Consortium on Auditory Learning Materials for the Handicapped; and product reports on seven new auditory instructional materials developed by the GLR SEIMC. Included in the first series of reports are surveys or the curricular areas, auditory format, and instructional levels of available auditory learning materials: a list of 19 media references and source directories; ideas for use of audio flashcards; user guides to five listening materials; and an evaluation form for field testing materials. Among items contained in the consortium report are a chart of member unit activities and goals; a glossary of 35 auditory learning terms; consortium meeting proceedings; a catalog of listening skills materials for visually impaired students; and numerous forms, questionnaires, and letters used to compile information. The third section features information on the design, use, and evaluation of new instructional materials such as "A Job for You" and "Understanding Ourselves and Others." (LS)

Appendixes to the

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Instructional Materials Center

Report on Audrory Learning

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Final Technical Report Project Number 322005 Grant Number OEG-3-6-062377-15557-607

Continuation of Appendixes to the Final Report of the Great Lakes Region Special Education Instructional Materials Center

Report on Auditory Learning



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#### Report on Auditory Learning

Occasional Papers on Auditory Learning Materials: A Collection of Selected Staff Reports

Consortium on Auditory Learning Materials for the Handicapped: A Report of Consortium Activities

New Product Reports: Information on new Auditory Instructional Materials Designed and Evaluated by the GLR SEIMC





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#### INTRODUCTION

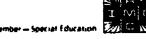
This volume provides documentation of some of the many ideas, procedures, and schemes that were examined as part of the operation of the Media and Materials Development Unit and the Consortium on Auditory Learning Materials for the Handicapped. Both operations were funded as part of the Great Lakes Region Special Education Instruct and Materials Center during fiscal year 1974.

The focus of both projects was on auditory instructional materials for handicapped children who learn best through the auditory mode. Learning through listening is an area within special education that has received little emphasis. Though procedures and materials are available for assessing auditory skills, little systematic effort has gone into examining how to maximize the auditory experience for handicapped children.

As a result of these two projects, a number of publications have become available on auditory instructional materials/auditory learning. Found in this report are a selection of some of the many papers written during the year by project staff which formed a basis for the published materials of the projects.

S. Joseph Levine, Ph. D. Coordinator Media and Materials Development Unit







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M E D I A
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M A T E R I A L S
D E V E L O P M E N T
U N I T

OCCASIONAL PAPERS
ON
AUDITORY LEARNING MATERIALS

A COLLECTION OF SELECTED
STAFF REPORTS

The work presented herein was performed pursuant to a Grant from the U.S. Office of Education, Department of Health, Education and Welfare. However, the opinions expressed herein do not necessarily reflect the position or policy of the U.S. Office of Education, and no official endorsement by the U.S. Office of Education should be inferred.



#### OCCASIONAL PAPERS

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#### AUDITORY LEARNING MATERIALS

A COLLECTION OF SELECTED
STAFF REPORTS



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## AUDITORY LEARNING MATERIALS: THEIR CLASSIFICATION, DEVELOPMENT, AND EVALUATION

#### OVERVIEW

This report is a compilation of occasional papers generated by the staff of the Great Lakes Region Special Education Instructional Materials Center during the 1973-74 academic year. These papers are arranged within three major categories: (1) the classification of auditory learning materials; (2) the development of auditory learning materials; and (3) the evaluation and observations of auditory learning materials when used with children in the field.

#### BACKGROUND

During the 1973-74 school year, the Great Lakes Region Special Education Instructional Materials Center conducted a series of studies regarding auditory instructional materials and the nature of auditory learning. The focus of this effort was on an examination of auditory learning that related to advantaged instruction. Only those auditory instructional materials were evaluated that utilized the auditory mode for the communication of information. Remedial instruction, including the assessment and the development of auditory abilities (auditory perception, auditory figure/ground, etc.), was not examined. Advantaged instruction capitalizes on a student's strength; in this instance the strength was the auditory channel, and information was provided through this strong channel.

Based on the concept of advantaged instruction, the GLRSEIMC developed a series of correlated strategies that included the classification and evaluation of commercially available materials to make them more effective for auditory learners, and the design and development of new auditory instructional materials. A vital aspect of this effort was the classroom evaluation of these available, modified, and newly developed auditory instructional materials with handicapped children who best learn through the auditory modality. The compilation of occasional papers that follows describes, in part, the classification, development, and observations generated from this focus on auditory learning meterials for the handicapped.



#### SECTION ONE

#### CLASSIFICATION OF AUDITORY INSTRUCTIONAL MATERIALS

#### OVERVIEW

A major focus of the staff's efforts during the 1973-74 academic year was the classification of auditory instructional materials. Inherent in such a classification effort was the determination of: (1) the availability of auditory instructional materials; (2) the sources, content areas, and emphases of such materials; and (3) the sampling of teachers' perspectives and perceived needs for the application of auditory instructional materials in their classrooms. Section One provides a brief overview of this effort.



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#### AVAILABILITY OF AUDITORY INSTRUCTIONAL MATERIALS

by

#### LIN HORENSTEIN

On June 26 and 27, 1973, during an instructional materials exhibit in Erickson Hall, an informal survey of manufacturers' representatives was conducted. The survey dealt with the availability of auditory instructional materials.

(Survey included on page two.)



#### SURVEY OF AUDITORY MATERIALS

Company name:

Total number of materials:

What amount of auditory instructional materials were displayed?

Do manufacturers (reps) show auditory materials very much?

Why or why not?

Are teachers interested in auditory materials?

Are auditory materials easy or hard to sell?

To whom are these materials primarily sold? (sec., elem., spec. ed., admin.)

What are the most popular materials?



#### SURVEY OF AUDITORY MATERIALS

#### --RESULTS--

Total number of manufacturers = 20
Number of print-only manufacturers = 5

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The following results involved only those 15 manufacturers that did display auditory instructional materials:

- 1. What amount of auditory instructional materials were displayed?
  - -- In 2 cases, auditory instructional materials comprised over 50% of total materials displayed.
  - -- In 2 cases, auditory instructional materials comprised 25% to 30% of total materials displayed.
  - -- In all other cases (11), 10% or less of total materials displayed had auditory components.

Mean # of items displayed = 20 Mean # of auditory type materials = 2.5

- 2. Do manufacturers (reps) show auditory materials very much?
  - a. 11 Yes 4 - No
  - b. Why or Why not?
    - Yes developing auditory components for almost all their items
      - high interest
    - Yes, but "if there is electrical outlet available..."
      (1 company)
    - No just developing programs with auditory component more interest in other products (written) that the company puts out
- 3. Are teachers interested in auditory materials?
  - a. 10 Yes
    - 3 Sometimes
    - 2 No
  - b. Why or Why not?
    - Yes if correlated with written materials
      - due to trend toward individualized instruction
      - multi-media sells!
      - interested in auditory materials as supplementary material



# SESI CUPI BUBILIBUE

## Sometimes - more willing to spend on written; will buy if extra money available

- No more interest in other products company carries
  - regard auditory materials as fancy frills
  - not enough money, written materials come first
- 4. Are auditory materials easy or hard to sell?
  - a. Easy 7 Hard - 8
  - b. Why?

Basy - not as controversial

- popular -- interest growing
- individualizing popular -- auditory lends itself
- multi-media presents attractive, modern package
- Hard depends on size of population
  - more expensive
  - texts are easier, auditory considered extra
  - hard to get schools or districts to make large enough money allotments
  - dependent on texts or programs they accompany
  - they are too new
  - lack of interest
- 5. To whom are these materials primarily sold?
  - a. Level:

elementary - 14

middle

secondary - 1

college -

b. People:\*

Media personnel (librarian, AV,

etc.) - 7

Principals - 6

Superintendent or consultant - 1

Teachers - 1

- \*Most mentioned a combination of media personnel and principal
- 6. What are the most popular materials?
  - a. Area:

Reading - 7

Auditory Perception - 3

Social Studies - 3

Other

Typing - 1

All areas kits - 1

b. Form of Recording Offered

Cassette - 10

Record - 6

Tape - 1

(Some companies (2) offer choice of record or cassette with programs)

All of these materials were part of multi-media programs



Outstanding features (selling points):

--individualized

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- -- good instruction (teacher's manual)
- -- sound plus filmstrip really popular
- --includes testing materials
- -- can facilitate low readers with high interest materials -- variable speed control new--growing interest
- --develops pre-reading perception skills
- --high quality
- --multi-media package is attractive and sells

Several manufacturers had unattended displays. Of these 8 were viewed.

- 6 had some type of auditory material displayed. a. Only one had prin rily audio-visual materials displayed.
- Displays primarily concerned with areas of: reading (5) social studies (2)
- C. All auditory materials displayed on these tables were components of multi-media programs.

#### Conclusion

In the educational marketplace there is not an abundance or a substantial variaty of auditory instructional materials. Of all the products displayed by the manufacturers at this exhibit, only 10% were items that contained any type of auditory instructional materials. Although a manufacturer may not develop many materials with auditory components, what they do produce is generally displayed.

The available auditory instructional materials are almost exclusively components of multi-media programs. The majority of the programs are geared to the elementary level in the areas of reading and social studies. The most popular type of program is a high quality filmstrip with accompanying sound track. The filmstrip/audio-track programs are reasonably priced and can easily fit into a limited budget.

There are two main reasons that teachers are developing an interest in auditory instructional materials. First, with the trend toward individualized instruction, teachers see auditory materials as being easily adapted to this instructional format. Second, auditory instructional materials are included within the multi-media programs, presenting an attractive, marketable package which provides alternative and supplemental material.



However, auditory instructional materials are generally not easy to sell. Many educational institutions simply do not have the kind of funding to purchase more expensive items. (Multimedia programs cost at least 25-30% more than traditional text-book programs.) Interestingly, many purchases are made of just the visual components of multi-media packages, since the programs are generally not dependent on the auditory instructional materials and are often regarded as supplementary luxuries by professionals in the field of education.

There is a growing trend toward having media personnel, including librarians and audio-visual supervisors, in the schools. Representatives mentioned that the majority of multi-media programs are sold to these individuals, since they are the ones who have the type of budget that can handle the purchase of entire programs.

The use of auditory components in multi-media packages is growing. Representatives stated that their manufacturers were developing additional auditory materials to supplement already existing visual products, in response to growing teacher interest. However, these "new" programs will still be primarily for the elementary level especially in the area of reading.

In summary, the major finding of this survey is that auditory instructional materials, when available, are usually found in multi-media packages. They are perceived as being supplemental and not instrumental to learning. Other components of multi-media packages (visual, teacher's manual, testing materials) all appear to be more "attractive" and "necessary."

July 11, 1973



## RESULTS OF PRELIMINARY SURVEY OF AUDITORY LEARNING MATERIALS

by

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#### MARSHA C. SMITH

A preliminary survey of auditory learning materials was made by noting general characteristics of those materials available in the Great Lakes Region SEIMC. One hundred and eight (108) materials were identified as auditory learning materials. Results of a survey of these materials regarding curricular area, secondary modality of input, audio format and instructional level follow. (Note: the information in italics are remarks by the surveyor and are purely subjective.)

#### I. Curricular Area:

Percentage of materials in the following Curricular Areas:

Social Studies 10% Self care 9% Science 8% Creer Development 7% Motor skills 7% Safety skills 5% Math 5% Sex Education 4% Music (including rhythm) 4% Self concept 4% Commercial skills 2% Toy 2%	Reading (includes readiness,	
Self care 9% Icience 8% Icreer Development 7% Motor skills 7% Safety skills 5% Math 5% Sex Education 4% Music (including rhythm) 4% Self concept 4% Commercial skills 2% Toy 2%	listening, and perception)	32%
Ecience 8% Exercite 7%  Motor skills 7%  Safety skills 5%  Math 5%  Sex Education 4%  Music (including rhythm) 4%  Self concept 4%  Commercial skills 2%  Toy 2%	Social Studies	10%
Motor skills 7% Safety skills 5% Math 5% Sex Education 4% Music (including rhythm) 4% Self concept 4% Commercial skills 2% Toy 2%	Self care	9%
Motor skills 7% Safety skills 5% Math 5% Sex Education 4% Music (including rhythm) 4% Self concept 4% Commercial skills 2% Toy 2%	Ccience	8%
Safety skills  Math  Sex Education  Music (including rhythm)  Self concept  Commercial skills  Toy  5%  5%  5%  5%  5%  5%  5%  5%  5%  5	: reer Development	7%
Math Sex Education 47 Music (including rhythm) Self concept Commercial skills Toy 27	Motor skills	7%
Sex Education 4% Music (including rhythm) 4% Self concept 4% Commercial skills 2% Toy 2%	Safety skills	5%
Music (including rhythm) 4% Self concept 4% Commercial skills 2% Toy 2%	Math	5%
Self concept 4% Commercial skills 2% Commercial ski	Sex Education	4%
Commercial skills 2% Toy 2%	Music (including rhythm)	4%
Commercial skills 2% Toy 2%	Self concept	4%
Toy 2Z	•	2%
Spelling 17		2%
	Spelling	17

Comments: It was interesting to note that of the reading materials (32%) most of the material was for auditory perception and listening rather than the actual teaching of reading. Almost all math material is for a primary instructional level.

#### II. Secondary Modality:

Visual 43% Tactile  $\frac{4\%}{47\%}$  have secondary input

Of the 43% that had a visual secondary modality, the breakdown of format was as follows:

Filmstrip	87%
Posters or cards	10%
Books	13%
Workbook	72



Transparencies	7%
Dittos	4%
Puppets ·	4%
Filmloops	2%

Comments: Of the materials that were purely auditory most were phonodises.

#### III. Audio Format:

#### Audio format was revealed as:

Phono discs	56%
Cassette	36%
Other	3%
Reel-to-reel tape	3%
Vocal (verbal)	1%
Audio flashcard	12

Comments: Some materials are available in both cassettes and phonodiscs. "Other" refers to talking machines, auditory stimuli stimulated by pulling a string, etc.

#### IV. Instructional Levels:

Suggested instructional levels varied and in many cases more than one level was specified. The breakdown indicated:

Primary	60%
Pre-school	43%
Secondary-Adult	30%
Intermediate	24%
Special education only	5%

Comments: Many materials are appropriate for several different instructional levels including Special Education. Delineation was difficult here and materials should be reviewed for use with specific children.

October 18, 1973





## RESULTS OF SECOND SURVEY OF AUDITORY LEARNING MATERIALS

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by

#### MARSHA C. SMITH

A second survey of available auditory learning materials was made in February, 1974. This second sample differed in several ways from the first. The field of materials examined, instead of consisting entirely of abstracts of MSU SEIMC acquisitions (the first survey), includes selected materials from the MSU SEIMC and those available from commercial sources but not available from the MSU SEIMC. All materials selected from commercial sources were chosen on the basis of instructional value for the population of auditory learners being focused on by the project. Also, all entries included in this second survey were actually examined first hand rather than included on the basis of descriptions (abstracts). As such, it is felt that this second survey is more representative of the general field of auditory learning materials. It should also be noted that this survey includes entire programs (with all components as sold together commercially) as well as materials that stand alone as individual units (and can be purchased as such).

#### 2ND SURVEY

#### 1ST SURVEY

CURRICULAR AREA		CURRICULAR AREA	
Affective self-concept	3%	Career development	78
Career development	6%	Commercial skills	28
Communication skills	88	Math	5%
Mathematics	15%	Motor skills	7%
Motor skills	88	Music (including rhythm)	48
Music (includes rhythm)	5%	Reading (includes readi-	
Reading (includes readi-		ness, listening, and	
ness, listening, and		perception	32%
perception	22%	Safety skills	5%
Safety	3%	Science	88
Science	148	Self care	98
Self care	3%	Self concept	48
Sex education	3 %	Sex education	48
Social Studies	18%	Social Studies	10%
Spelling	2%	Spelling	18
		Toy	2%

#### SECONDARY MODALITY

Visual 52%
Tactile 18
53% have secondary input

Indicating that 47% of materials surveyed are purely auditory in return. Of the visual, the FRICkdown indicates:

#### SECONDARY MODALITY

Visual 43% Tactile 4%

47% have secondary

Of those surveyed, 43% had a visual mode as a second source of input. Of that visual stimuli the breakdown of format was as follows:

•		1st survey	
2ND SURVEY  Books Dittos Filmstrips Posters or cards Transparencies Workbook or worksheets other  INSTRUCTIONAL SUPPLEMENTAL	28 68 428 88 18 278 68	Books Dittos Filmloops Filmstrip Posters or cards Puppets Transparencies Workbook	13% 4% 2% 87% 10% 4% 7%
AUDIO FORMAT  Audio flashcard  Cassette  Cassette or phonograph  available  Phonodiscs  Reel-to-reel	0% 53% 6% 37% 8%	Audio flashcard Cassette Phono discs Reel-to-reel tape Vocal (verbal) other	18 368 568 38 18 38
tional or interest)  Pre-school (includes R Primary Intermediate Secondary Special Ed only All  TEACHER'S MANUAL INCLUDES	13% 53% 30% 20% 2% 3%	LEVEL FOR USE (either tional or interest)  Pre-school Primary Intermediate Secondary-Adult Special Ed only	43% 60% 24% 30% 5%

#### 15 //6 SURVEY OF FIELD-TEST MATERIALS

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A second mini-curvey is taken from a field of 25 materials used in field-testing. These particular materials were first selected from the classification form on the basis of their

- 1) pre-post cest possibility2) usability with a minimum of modification
- 3) possible educational value
- appropriateness for our population

The N=25 represents the 25 separate materials as they are available commercially. At the time of this survey, 60 materials have been prepared for Sield-study. Of these 60 materials, as many as 4 were taken from or commercially available material. (i.e. Four field-test materials w. 3 devised from one Hap Palmer record. Only the record as produce commercially was counted in this survey.)

CURRICULAR AREA	
Affective self-concept	16%
Consumer education	4%
Mathematics	16%
Reading (includes auding/	
listening, etc.)	36%
Safety	88
Science	88
Social studies	16%
SECONDARY MODALITY	
Visual	648
Tactile	48
Format of secondary modality: Book	88
Cards	20%
Filmstrip	32%
Workbook or worksheets	8%
other (clock, abacus)	8%
AUDIO FORMAT	
· Cassettes	60%
Record	40%
INSTRUCTIONAL LEVEL	
Pre-school	12%
Primary	64%
Intermediate	20%
Secondary	48
All	48
IN STRUCTIONAL	20%
SUPPLEMENTAL	808



#### MEDIA REFERENCES FOR AUDITORY LEARNING MATERIALS

## Compiled by WILLIAM ANDERSON

The following list of references and source directories is designed to assist teachers, administrators and specialists in locating large numbers of existing auditory learning materials. The listing has been divided into two groups: Group I, a list of basic references and directories; and Group II, a more specialized and supplemental listing of references and directories.

It should be noted that the prices given may have been changed by the publisher/distributor without notice.



#### GROUP I

BLUE BOOK OF AUDIOVISUAL MATERIALS, 48th edition, Educational Screen and Audiovisual Guide, 434 South Wabash Avenue, Chicago, Illinois, 60605. 1973. 60 pages. \$2.50. Annual, in July/August issue of Educational Screen and Audiovisual Guide.

Listing of approximately 1200 titles in all media in 33 subject fields produced in the twelve months preceding publication. Includes reader service cards which include numbers for all producers and distributors to enable readers to channel requests for information concerning items through Educational Screen and Audiovisual Guide.

EDUCATORS GUIDE TO FREE TAPES, SCRIPTS AND TRANSCRIPTIONS, compiled and edited by Walter A. Wittich. 16th edition. Educators Progress Service, Randolph, Wisconsin 53956. 1973. 200 pages. \$7.75. Revised annually.

Over 300 tapes, 15 scripts and 65 transcriptions in all instructional subjects including conservation, guidance, health education, homemaking, language arts, music, science, and social studies. Available on free loan to school superintendents, AV directors, librarians and teachers.

HARRISON TAPE CATALOG: OPEN REEL, CASSETTES AND 8-TRACK, M. & N. Harrison, Inc., 274 Madison Avenue, New York, N.Y. 10016. Cumulative catalog published bimonthly, \$1 per single copy, \$5 per yearly subscription. (Generally available at record and music shops.)

Approximately 1400 old and new tapes under such headings as: children's, language lessons, international, vocal, opera, folk, jazz and others. Each category includes a "what's new" list as well as cumulative list.

LEARNING DIRECTORY--INSTRUCTIONAL MATERIALS INDEX. Westinghouse Learning Corporation, 100 Park Avenue, New York, N.Y. 10017. 1970, with 1972 supplement. \$99.50, \$25.00 supplement.

This seven volume directory identifies over 205,000 audiovisual and instructional materials for all grade levels in all subject areas. Over 1000 different producers represented in directory. One of two most comprehensive audiovisual materials listings in existence. Reads like white pages of Los Angeles telephone directory.



LIBRARY OF CONGRESS CATALOG: MUSIC AND PHONORECORDS. 1953 to date.

Semiannual with annual cumulations at \$20. Music and Phonorecords, ...

1953-57 cumulation, issued as v.27 of the National Union Catalog.

\$20. 1049p. Music and Phonorecords, 1958-62 cumulation, issued as v.51 and v.52 of the National Union Catalog. v.51, \$20. 1049p; v.52, \$20. 514p. Music and Phonorecords, 1963-67 cumulation, issued in 3v., \$75. Quinquennial volumes for 1953-57 and 1958-62 are for sale by Rowman and Littlefield, Inc., 84 Fifth Avenue, New York, N.Y. 10011. Quinquennial volumes for 1963-67 are for sale by J. W. Edwards, Inc., Ann Arbor, Michigan 48106. Current issues and annual cumulation available from the Library of Congress, Card Division, Building No. 159, Navy Yard Annex, Washington, D.C. 20541. The next quinquennial cumulation will cover the years 1968-72; therefore, there will be no annual cumulation for 1972.

Music scores intended for performance and sound phonorecords, musical and nonmusical. The nonmusical recordings cover all subject fields currently received by the Library of Congress and other American libraries participating in its cooperative cataloging program. Books about music and librettos have been included since 1963.

NATIONAL CENTER FOR AUDIO TAPES CATALOG, National Center for Audio Tapes, University of Colorado, Stadium Building, Boulder, Colorado 80302. 1972. 123 pages. \$4.50.

Approximately 12,000 tapes selected on basis of curricular relevance and production quality which can be re-recorded for any individual, group, educational institution, or business firm provided that the restrictions are adherred to. Tape listings for all subject matters and grade levels.

- NICEM, National Information Center for Educational Media, University of Southern California, University Park, Los Angeles, California 90007.
  - A. Index to Educational Audio Tapes, 1972, \$36.50 (yearly update).

Lists and describes over 20,000 audio tapes for educational use. Identifies producer, distributor, grade level, content area, and availability. Selective search via computer with descriptors possible.

B. Index to Educational Records, 1972, \$34.50 (yearly update)
Lists and describes over 18,000 educational records. Same information available as in other NICEM indexes.



SCHWANN RECORD AND TAPE GUIDE. Monthly Schwann Supplementary
Record Guide; semiannual. W. Schwann, 1nc., 137 Newbury Street,
Boston, Massachusetts 02116 (Also available in some 3,800 recordtape shops in the United States.)

Guide includes over 35,000 titles from 770 companies in all subject areas. 1949-1969 listings availabe on 35 mm positive microfilm from: AMS Press, Inc., 56 East 13th Street., New York, N.Y. 10003. Schwann Children's Record Guide (1970), published annually for \$.35 postpaid from publisher.



#### GROUP II

#### **BEST COPY AVAILABLE**

AN ANNOTATED LIST OF RECORDINGS IN THE LANGUAGE ARTS, compiled and edited by Morris Schreiber. National Council of Teachers of English, 508 South Sixth Street, Champaign, Illinois 61820. 1971. Stock Number 47906. 83 pages. \$1.75.

An annotated selected list of records to aid English teachers in elementary schools, secondary schools in subject areas of American literature, folk literature, American history, world history, social studies, English and American poetry and prose, drama, Shakespeare, documentaries, lectures, speeches, and anthologies, 436 entries.

AUDIOVISUAL MARKETPLACE--A MULTIMEDIA GUIDE, J. A. Neal, Editory.

R.R. Bowker Company, 1180 Avenue of the Americas, New York, N.Y.

10036. 1972. 293 pages. \$15.00.

A guide to producers and distributors of audiovisual materials, free loan and audio tape exchange centers, educational radio and television stations, audiovisual associations, audiovisual reference materials, audiovisual periodicals and review services, and audiovisual services such as: cataloging, dealers, laboratories, and equipment rental.

THE BLACK RECORD: A SELECTIVE DISCOGRAPHY OF AFRO-AMERICA ON AUDIO DISCS, Washington University Libraries, Audio-Visual Department, St. Louis, Missouri 63130. 1970. 13 pages. \$50 prepaid, \$1.50 if billing required.

More than 100 phonodiscs dealing with black history. Documentary and spoken word recording classifications include biographical material, speeches, poetry, prose and drama. Emphasis is placed on "authentic" folk recordings and they range from origins in Africa to "Songs of the Selma-Montgomery March."

## EDUCATORS GUIDES TO FREE MATERIALS, Educators Progress-Service, Randolph, Wisconsin 53956.

- 1. Free Suidance Materials \$8.75
- 2. Free Social Studies Materials \$9.50
- 3. Free Health, Physical Education and Recreation Materials \$8.00
- 4. Free Science Materials \$9.25

Generally available listings of free-loan educational and informational multi-media materials. Each directory contains at least 50 tapes. Classified by medium and subject, then alphabetical by title.



EDUCATIONAL MEDIA INDEX: A PROJECT OF THE EDUCATIONAL MEDIA COUNCIL. McGraw-Hill Book Company, New York, N.Y. 10036. 1964. 14 volumes. \$62.45. Individual volumes available separately at various prices. (Limited supply available from Educational Media Council, Inc., DuPont Circle Building, Suite 710, 1346 Connecticut Avenue, N.W., Washington, D.C. 20036.

Over 28,000 titles of media (all types) in all subject matters from kindergarten to adult education. Entries include subject heading, type of medium, producer-distributor, length, grade level, and availability.

EDUCATOR'S PURCHASING GUIDE (formerly Fisher Publishing Company's EPM), 5th Edition, North American Publishing Company, 134 North Thirteenth Street, Philadelphia, PA 19107. 1973. \$21.50.

A reference guide to producers of instructional and audiovisual materials and equipment for all grade levels and disciplines of education. Included are product listings, product information sections, producer/manufacturer sections, and a trade name section.

GENERAL CATALOG OF TALKING BOOKS, American Printing House for the Blind, Inc., 1839 Frankfort Avenue, P.O. Box 6085, Louisville, KY 40206. 1973.

Talking books (recorded at 16 2/3 rpm or 8 1/3 rpm) have been listed according to school subjects. All are available for purchase from APH. Note talking books require special playback equipment (also available from APH.) A listing of audio tape cassettes is also available free from the American Printing House under a separate cover.

FOLK MUSIC: A CATALOG OF FOLK SONGS, BALLADS, DANCES, INSTRUMENTAL PIECES, AND FOLK TALES OF THE UNITED STATES AND LATIN AMERICA ON PHONOGRAPH RECORDS, U.S. Library of Congress, Reference Department, Fusic Division, Recording Library, Washington, D.C. Available from U.S. Government Printing Office, Washington, D.C., 20402. 107 pages. \$.40.

Records representing a sampling of the best of more than 16,000 records in the Archive of Folk Song of the Library of Congress. Included in catalog are 107 discs (78 rpm) containing 341 titles and 59 discs (33 1/3 rpm) with 899 titles of folk music and tales recorded in the field with portable recording equipment, for sale by the Library of Congress.



GUIDES TO EDUCATIONAL MEDIA, 3rd edition, Margaret I. Rufsvold and Carolyn Guss, American Library Association, 50 East Huron Street, Chicago, Illinois 60611. 116 pages. \$2.50.

A guide to catalogs and references, services of professional organizations, and specialized periodicals which systematically provide information on nonprint educational media. Identifies and describes 153 educational media references and is more comprehensive than selective.

NEW EDUCATIONAL MATERIALS, compiled by Mary L. Allison, Citation Press, 50 Forty-fourth Street, New York, N.Y. 10036. 1970. 256 pages. \$3.75.

Annotated listing of films, phonodiscs, phonotapes, multimedia kits, charts, etc., for the classroom teacher from prekindergarten through the twelith grade. Many materials have evaluative comments.

SPOKEN RECORDS, by Helen Roach. Scarecrow Press, Box 656, Metuchen, New Jersey 08840. 1970. 288 pages. \$7.50.

More than 500 spoken recordings including documentaries, lectures, interviews and readings by authors. Arranged by subject categories, then alphabetical by title.



# AUDITORY LEARNING MATERIALS AVAILABLE FROM EDUCATIONAL RADIO STATIONS

Compiled by
IAM ANDERSON

Educational radio of fons (noncommercial stations licensed and supported by school districts, colleges, and universities) have a long history of providing instructional and educational programming to public school and specialized audiences. The following list of educational radio stations (extracted from Audiovisual Market Place, 1972-73) maintain audiotape and record libraries of selected programs. Many of these programs and series are effective auditory learning materials for children which are not available from commercial or other sources. Availability varies, but many make copies available on a loan, rental or cost of duplication basis.

For a sample of materials available from educational radio stations, Appendix A contains information and offerings from WHA Radio, Madison, Wisconsin.



#### 1RIZONA

KFCA-FM
Mr. Charles E. Buzzard
Maricopa County Community College
1202 West Thomas Road
Phoenix, Arixona 85013
(602) 264-2492

laintains a library of audiota; vailable on rental to schools, ibraries, individuals, etc. Contact for listing.

#### <u>ALIFORNIA</u>

KPFA-FM

Mr. Judson Snyder, Director Pacifica Foundation 2207 Shattuck Avenue Berkeley, California 94704 (415) 848-6767

aintains a library of audiotapes or sale to schools, libraries, adio stations, industry and inividuals. Catalog available.

NDVS-FM
Mr. Richard Anderson, General
Manager
Radio KDVS
c/o ASVCD
University of California
Davis, California 95616
(916) 752-2776

'ape catalog available.

**ERIC** 

KFJC-FM
Mr. John Hasling, General
Manager
Foothill College
12345 Elmonte Road
Los Altos Hills, CA 94022
(408) 948-9870

aintains a library of audiotapes vailable on exchange or sale to shoots, libraries, industry, etc.

#### CALIFORNIA (continued)

KPFK-FM

Mr. Will 1. Lewis, General Manager Pacifica Foundation Los Angeles, California 90038 (213) 877-2711

Audiotapes available for small cost to all interested parties. Catalog available.

KUSC-FM

Mr. Douglas Culver, Manager University of Southern California University Park Los Angeles, California 90007 (213) 746-7808

Catalog of programs available.

KXLU-FM
Mr. Rene A. Marclan, General
Manager
Loyola University of Los Angeles
7101 West 80th Street
Los Angeles, California 90045

Classical and jazz musical program.

KVCR-FM

(213) 670-1043

Mr. Robert G. Burningham San Bernardino Community College 701 South Mt. Vernon Avenue San Bernardino, California 92403 (714) 885-0234

Library of programs produced is available on audiotape on exchange or free basis to radio stations.

KSJS-FM

Mr. William Hall, General Manager San Jose State College San Jose, California 95114 (408) 294-6414 ext. 2550

Catalog of programs available.

#### : FORNIA (continued)

#### KCSM-FM

Dr. Jacob H. Wiens, General Manager San Mateo Junior College 1700 W. Hillsdale Blvd. San Mateo, California 94402 (415) 574-6427

ograms available on audiotize on pan to schools, libraries, industry, ther radio stations.

KCRW-FM
Santa Monica Unified School Dist.
1723 4th Street
Santa Monica, California 9040
(213) 393-2785

intains a library of audiotapes and cords. Catalog of programs avail-

#### KUOP-FM

Mr. James H. Irwin
iversity of the Pacific
3601 Pacific Avenue
Stockton, California 95204
(209) 946-2330 ext. 2379

aintains a library of audiotapes vailable to schools, libraries, in-ustry, etc. on exchange basis or le--very nominal charge. Program ick available.

#### **DLORADO**

#### KRCC-FM

Mr. Phil Ershler, Program Director Colorado College Colorado Springs, Colorado 80903 (303) 473-2233 ext. 335

rintains a library of audiotages vailable on exchange or loan to shools.

#### (OLORADO (continued)

#### KUNC-FM

Dr. William Hurt, Program Director University of Northern Colorado Greeley, Colorado 80631 (303) 351-3333

Maintains a library of audiotapes available on exchange or loan to schools and individuals.

#### KWSB-FM

Ms. Barbara Hess, Program Manager Western State College of Colorado Box 928
Gunnison, Colorado 81230
(303) 641-2131

Maintains a library of audiotapes available on exchange or loan to schools and other organizations rent free.

#### CONNECTICUT

WPKN-FM
Mr. Jeffrey N. Tellis, General
Manager
University of Bridgeport
244 University Avenue
Bridgeport, Connecticut 06602
(203) 336-5364

Muintains a library of audiotapes for sale to schools, libraries, industry, individuals, and other radio stations.

WRTC-FM
Mr. Kevin S. Gracey, Program
Director
Trinity College
Box 1368
Hartford, Connecticut 06106
(203) 522-9229

Programs available on 1/4 inch audiotape. Send for listing of available programs.



NNECTICUT (continued)

WESU-FM

Mr. William Hutchins Wesleyan Broadcast Association, Inc. Box 2300 Wesleyan Station Middletown, Connecticut 06457 (203) 346-7791

intains a library of audiotapes ailable on rental to schools, braries, and non-profit organitions.

WWUH-FM

Dr. Daniel Viamonte University of Hartford 200 Bloomfield Avenue West Hartford, Connecticut 06117 (203) 523-4647

intains a library of audiotapes ailable on exchange.

#### STRICT OF COLUMBIA

WAMU-FM

Ms. Susan Harmon, General Manager The American University Massachusetts & Nebraska Ave., N.W. Washington, D.C. 20016 (202) 686-2692

ogram guide available.

WETA-FM

Mr. Donald V. Taverner
The Greater Washington Educational
Telecommunications Association, Inc.
2600 Fourth St., N.W.
Washington, D.C. 20001
(202) 387-1300

talog of audiotape programs ailable.

#### FLORIDA

WUSF-FM
Mr. Richard Steck, Station
Manager
University of Southern Florida
4202 Fowler Avenue
Tampa, Florida 33620
(813) 974-2341

Maintains a library of audiotapes available on exchange, loan and rental. Available on application. Program catalog available.

WPRK-FM

Dr. Charles A. Rodgers Rollins College Winter Park, Florida 32789 (305) 646-2375

Maintains library of audiotapes and 33 1/3 records. Contact for catalog.

#### ILLINOIS

WSIU-FM

Mr. John Kurtz, General Manager Southern Illinois University 1056 Communications Bldg. Carbondale, Illinois 62901 (618) 453-4343

Audiotape programs available. Free catalog, programs available to commercial and educational broadcasts, schools and colleges.

WBE2-FM

Ms. Elizabeth E. Marshall Board of Education, City of Chicago 228 North LaSalle Street Chicago, Illinois 60601 (312) 641-4088 ext. 90

Library of programs occasionally available on exchange or loan to schools, libraries, other radio stations. Annual schedule available upon request.



#### 'NOIS (continued)

WGLT-FM Mr. Ben Paxton, Jr. Illinois State University Normal, Illinois 61761 (309) 436-6691

idiotape programs. Catalog vailable.

#### WMTH-FM

Mr. William R. Mitchell, General Manager School District #207 Dempster and Potter Road Park Ridge, Illinois 60068 (312) 696-2525 ext. 562

aintains a library of programs.

#### <u>NDIANA</u>

WFIU-FM

. James Perry, Education Director Indiana University Board of Trustees Bloomington, Indiana 47401 (812) 337-1357

talog of programs available on imited basis.

WPSR-FM

Mr. Robert S. Edelman
Evansyille-Vanderburg School Corp.
726 Wedeking Avenue
Evansyille, Indiana 47711
(812) 425-1801

brary of tapes available to schools. atalog available.

WFCI-FM

Mr. Raymond Cowan, Education Director Franklin College of Indiana Franklin, Indiana 46131

log available.

#### INDIANA (continued)

WGVE-FM

Mr. Lawrence Ventura, General Manager School City of Gary 1800 E. 35 Street Gary, Indiana 46409 (219) 962-7571

Maintains a library.

WGCS-FM

Mr. Ray Vinble, Program Director Goshen College Broadcasting Corp. Goshen College Goshen, Indiana 46526 (219) 533-3161

Catalog of programs available.

WIAN-FM

Mr. Arthur Van Allen Indianapolis Board of School Commissioners 931 Fletcher Avenue Indianapolis, Indiana 46203 (317) 638-3493

Maintains library of audiotapes.

WICR-FM

Mr. William Byer, General Manager Indiana Central University 4001 Otterbein Avenue Indianapolis, Indiana 46227 (317) 783-3730

Maintains library of audiotapes available to anyone for exchange, loan, sale, rent, free, or for postage. List of programs available.

WBST-FM

Mr. M. John Eiden, Assistant Readio Station Manager Ball State University Center for Radio and TV Muncie, Indiana 47306 (317) 285-1833

Catalog of programs available for exchange, loan, rent, sale, or free.



#### INDIANA (continued)

WBAA-AM
Mr. R. U. Forsythe, Educational
Director
Purdue University
Hall of Music
West Lafayette, Indiana 47907
(317) 749-2385

Library of tape recordings available on exchange, loan or sale to schools.

#### IOWA

KDPS-FM
Dr. E. Keith Kyde, Education
Director
Des Moines Independent Community
School District
1800 Grand Avenue
Des Moines, Iowa 50307
(515) 284-7723

Maintains a tape library.

WSUI-AM Mr. George Klingler, Education Director University of Iowa Iowa City, Iowa 52240 (319) 353-5666

Maintains library of audiotapes available on exchange, rental, or sale to schools and libraries.

KRNL-FM
Dean Robert A. Reid, Education
Director
Cornell College
Mount Vernon, Iowa 52314
(319-895-6239

Audiotapes of documentary and special events programs available free, on exchange, or sale (depending on the type of program). Catalog available.

#### IOWA (continued)

KWAR-FM Mr. Robert C. Gremmels, Advisor Wartburg College Waverly, Iowa 50677 (319) 352-1200 ext. 306

Catalog of programs available.

#### KANSAS

KFKU & KANU-FM
Mr. Richard F. Wright, Operations Director
The University of Kansas
Broadcasting Hall
Lawrence, Kansas 66044
(913) 864-4530

Catalog available.

#### **KENTUCKY**

WBKY-FM
Mr. Don Wheeler, General Manager
University of Kentucky
McVey Hall
Lexington, Kentucky 40506
(606) 257-2733

Maintains a library of audiotapes available on exchange or loan to schools, libraries, industry, etc.

WEKU-FM Mr. James Harris, Director, Division of Instructional Services Eastern Kentucky University Richmond, Kentucky 40475

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Audiorapes of programs available on exchange or loan to schools, libraries, industry and other radio stations. Catalog of programs available.

(606) 622-2475



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WMEB-FM
Mr. Wofford G. Gardner, Education
Director
University of Maine
240 Stevens Hall
Orono, Maine 04473
(207) 581-7385

aintains a library of audiotapes vailable to schools, libraries, ndustry, individuals, and other adio stations. Catalog of programs vailable.

#### **ASSACHUSETTS**

WCFR-FM
Mr. Arthur R. Cohen, Program
Director
University of Massachusetts
Hampshire House
Amherst, Mass. 01002
'413) 545-0100

aintains a library of audiotapes vailable on exchange, loan or sale.

WMUA-FM

Mr. Kenneth L. Horseman English Building University of Massachusetts Amherst, Mass. 01002 (413) 545-2878

aintains a library of audiotapes vailable on exchange or loan to shools and individuals.

WPAA-FM

Mr. Peter Halley, Program Director Phillips Academy Andover, Massachusetts 01810 (617) 475-3404 ext. 86

rams are available for price of ape, or free if tape is supplied in request.

MASSACHUSETTS (continued)

WBUR-FM
Mr. Stephen Schlow, Program
Director
Boston University
630 Commonwealth Avenue
Boston, Mass. 02215
(617) 353-2790

Maintains a library of audiotapes, records--33 1/3, 78 and 45.

WTBS-FM
Professor Arnold Amstutz, MIT
WTBS Foundation, Inc.
3 Ames Street
Cambridge, Mass. 02142
(617) 868-9827

Main ains a library of audiotapes available on exchange or sale to schools, libraries, industry, etc. Catalog of programs available.

WMHC-FM
Ms. Eloise Fuller, Station
Manager
Mount Holyoke College
S. Hadley, Mass. 01075
(413) 538-2044; 2063

Maintains a library of audiotapes and records (33 l/3 and 45) available on exchange or loan to schools.

WAIC-FM Mr. Joe English, Educational Director American International College Springfield, Mass. 01109 (413) 737-5332 ext. 232

Maintains a library of audiotapes available on exchange or loan to schools and libraries.



#### MICHIGAN

WVAC-FM

Mr. Roger Wallace, President and Educational Director Adrian College 110 S. Madison Street Adrian, Michigan 49221 (313) 265-5161 ext. 440

Maintains a library of audiotapes available on exchange or loan to schools and libraries.

WDTR-FM

Dr. Dorothy F. Patterson Program Director Detroit Board of Education 9345 Lawton Avenue Detroit, Michigan 48206 (313) 833-7900 ext. 2161

Audiotapes of programs available on exchange or sale to schools, libraries, industry and other radio stations. Program guides available.

WKAR & WKAR-FM
Mr. Richard Estell, Educational
Director
Michigan State University
East Lansing, Michigan 48824
(517) 355-6540

Broadcasts fine arts and information programs. Operates tape distribution services, primarily for Michigan radio stations. Some programs available at cost to schools, library services, etc.

WMUK-FM

Dr. Charles Woodliff, Director Division of Instructional Communications Western Michigan University Maybee Music Building Kalamazoo, Mich. 49001 (616) 383-1921

Maintains a library of audiotapes available on exchange or loan and sale to schools or educational or commercial stations.

#### MICHIGAN (continued)

WEMU-FM
Mr. Richard E. Jacques, Program
Director
Eastern Michigan University
130 Quirk Building
Ypsilanti, Michigan 48197
(313) 487-3197; 2229

Maintains library of audiotapes available on exchange or loan, rental and sale (determined by use) to schools, libraries, industry, other radio stations.

#### MINNESOTA

KSJR-FM

Mr. William H. Kling, President Minnesota Educational Radio, Inc. Collegeville, Minn. 56321 (612) 363-7702

Maintains a library.

KUOM

Ms. Marion Watson, Educational Director University of Minnesota Eddy Hall Minneapolis, Minn. 55455 (612) 373-3177

Audiotapes of programs available free to schools, libraries, individuals and other radio stations. Catalog of programs available.

**KSJN** 

Mr. W. H. Kling, President Minnesota Educational Radio, Inc. 30 E. 10th Street St. Paul, Minn. 55101 (612) 224-4711

Maintains a library of audiotapes for sale to schools, libraries, industry and to individuals.



#### I 'OURI

KWWC-FM
Professor Lowell A. Connor II
General Manager
Stephens College
Columbia, Missouri 65201
(314) 442-2211

zintains a library of audiotapes; vailability varies with type of aterial.

#### **EVADA**

Mr. Donald G. Potter, Educational Director University of Nevada Reno, Nevada 89507 (702) 784-6591

zintains a library of audiotapes, ibrary of programs available for ental to schools and other radio ions.

#### W JERSEY

WGLS-FM

Mr. Robert Blake, General Manager and Educational Director Glassboro State College P.O. Box 116 Glassboro, New Jersey 08028 (603) 445-7335

atalog available.

#### -W MEXICO

Mr. Lance A. Woodworth, General Manager New Mexico Union University of New Mexico Albuquerque, New Mexico 87106 (505) 277-4806

intains a library of audiotapes vailable on exchange or loan to shools, libraries, industry, etc.

#### NEW MEXICO (continued)

KRWG-FM

Mr. Harvey Jacobs, Educational Director
New Mexico Scate University
Box 3J, University Park
Las Cruces, New Mexico 88001
(505) 646-4525

Maintains a library of audiotapes available on exchange or loan to schools.

#### NEW YORK

WNYE-FM

Mr. James F. Macandrew, President Board of Education City of New York 29 Fort Greene Place Brooklyn, New York 11217 (212) 596-3335

Maintains a library of audiotapes available on exchange or loan. Catalog available.

WBFO-FM

Mr. Don G. Blakely, President State University of New York 3435 Main Street Buffalo, New York 14213 (716) 831-5393

Maintains a library of audiotapes available on exchange or loan to schools, libraries, industry, etc.

WSLU-FM

Mr. Richard D. Hutto, General Manager The St. Lawrence University Canton, New York 13617 (315) 379-5356; 6302-3

Free audiotapes of programs available to schools and libraries.



#### NEW YORK (continued)

(716) 245-5586

WGSU-FM

Mr. John A. Davlin, Educational Director
Board of Trustees
State University of New York
State University College
Geneseo, New York 14454

Maintains a library of audiotapes available on exchange.

WVHC-FM

Dr. George N. Gordon, Director Communications Center Hofstra University 1000 Fulton Avenue Hempstead, New York 11550 (516) IV9-8870, 560-3389

A library of audiotape programs is available; programs on 1/4 inch audiotape are issued on a rental basis to institutions at \$15.00 per tape average (prices vary according to type and duration of program). Tapes available to libraries on a sale hacis, prices on request. Catalog of programs sent on request.

WSHR-FM

Mr. Richard E. Fearns, Advisor Radio Communications Board of Education of Central School District No. 5 (Sachem Central) 245 Union Avenue Holbrook, New York 11741 (516) 588-2700

Maintains a library of audictapes.
Library of programs available on
loan to schools, libraries, industry,
individuals, other radio stations.

WICB-FM

Mr. Rudy Paolangeli, Radio Director Ithaca College Ithaca, New York 14850 (607) 274-3214

Maintains a library of audiotapes available on exchange or loan.

ERIC

NEW YORK (continued)

WBAI-FM
Mr. Edwin A. Goodman, Manager
WBAI-FM, Inc.
(Pacifica Foundation)
359 E 62 Street
New York, N.Y. 10021
(212) VA6-U880

Tapes of programs available on loan and sale to individuals and to other radio stations. Catalog of programs available.

WKCR-FM
Mr. Michael M. Meadvin, President
208 Ferris Booth Hall
Columbia University
New York, N.Y. 10027
(212) 280-5011

Tapes of programs available for sale to schools, libraries, industry, individuals and other radio stations.

WNYC

Mr. Seymour N. Siegel, Director Municipal Broadcasting System 2500 Municipal Building New York, N.Y. 10007 (212) 566-2115

Maintains a library of audiotapes available on exchange or loan, rental and sale to schools, libraries, etc.

WTSC-FM Mr. Stanley Rowin, General Manager Clarkson College of Technology Potsdam, New York 13676 (315) 265-7180

Maintains a library of audiotapes available on exchange or loan to schools.

WRUR-FM

Mr. Sam Scott, Program Directc University of Rochester Broadcasting Corp. Box 5068 Rochester, New York 14627 (716) 461-1450

#### ":W YORK (continued)

WHAZ Mr. Dick West, Director Box 784 Troy, New York 12181 (518) 272-1010

Selected library of audiotapes available on rental and sale.

#### NORTH CAROLINA

WUAG-PM

Mr. Emil W. Young, Jr., Director Radio and T.V. University of North Carolina at Greensboro Greensboro, North Carolina 27412 (919) 379-5405

Maintains a library.

WEDD-FM
Dr. Julian C. Burroughs, Jr.
General Manager
Box 7405
Wake Porest University
Winston-Salem, N.C. 27109
(919) 725-9711 ext. 218

Audiotapes of programs available to schools, individuals and other educational radio stations.

#### NORTH DAKOTA

KFJM

Mr. D. E. Beach, Director of Radio University of North Dakota Box 8116 Grand Forks, N.D. 58201 (701) 777-2577

Maintains a library of audiotapes and film (16 mm) on exchange or loan and rental to schools, libraries, industry, etc.

#### OHIO

Dr. Ruth Lewis, General Manager University of Akron 302 E. Buchtel Avenue Akron, Ohio 44304 (216) 762-2112

Maintains a library of audiotapes and videotapes available on exchange or loan and rental to schools, libraries, industry, etc.

WOUB-AM-FM
Mr. Joseph Welling, Director of
Broadcasting
Ohio University
College Street
Athens, Ohio 45701
(614) 594-5321

Maintains a library of audiotapes available on exchange or loan, rental and free to schools, libraries, industry, etc.

WCDR-FM

Mr. Paul Gathany, General Manager Cedarville College N. Main and College Cedarville, Chic 45314 (513) 766-2231

Maintains a library of audiotapes and tape duplication facilities.

WBOE-FM
Mr. Charles E. Siegel, Educational
Director
Board of Education
Cleveland City School District
1380 E. 6 Street
Cleveland, Ohio 44114

Catalog of programs available upon request.

WOSU & WOSU-FM
Mr. Thomas C. Warnock, General
Manager
Ohio State University
2400 Olentangy River Road
Columbus, Ohio 43210
(614) 421-2540

Maintains a library of audiotapes available on rental to schools,



#### A10 (continued)

WKSU-FM

Mr. John Perry, General Manager Kent State University Main and Horning Road Kent, Ohio 44242 (216) 672-2376; 7997

Maintains a library of audiotapes available on rental to schools and libraries.

WOBC-FM

Mr. Charles Perego, Educational Director Oberlin College Student Network, Inc. Wilder Hall Oberlin, Ohio 44074 (216) 774-1059

Maintains a library of audiotapes available on exchange or loan to schools. Program catalog available.

#### Me

WMUB-FM

Dr. Stephen C. Hathaway
Director of Telecommunications
Miami University
Telecommunications Service
Oxford, Ohio 45056
(513) 529-3521

Maintains a library of audictapes available on exchange or loan and rental to schools, libraries, industry, etc.

WCSU-FM Mr. Willis Parker, Program Director Central State University Wilberforce, Ohio 45384 (513) 376-7223

Maintains a library of audiotapes and videotapes available on rental, sale and free to schools, libraries, industry, etc.

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#### OHIO (continued)

WYSO-FM Mr. Dale Crouse, General Manager Antioch College Antioch College Union Yellow Springs, Ohio 45387 (513) 767-7715

Library of programs (audiotapes) available on exchange or sale. Tape exchange programs and catalog are available.

#### **NREGON**

KOAC

Mr. Donald R. Larson, Educational Director
State Board of Higher Education Covell Hall Corvallis, Oregon 97331 (503) 754-1311

Audiotapes of programs available on sale to schools, libraries. Catalog available.

#### PENNSYLVANIA

WMUH-FM
Rev. George F. Eichorn, Educational Director
Muhlenberg College
Box 10B
Allentown, Pennsylvania 18104
(215) 433-5957

Maintains a library of audiotapes and printed scripts available on exchange or loan and sale to school.

WGEV-FM Mr. Thomas Lenz, General Manager Geneva College Board of Trustees Beaver Falls, Pennsylvania 15010 (412) 846-5100

Maintains a library of audiotape is available on exchange or loan.



#### DennsyLVANIA (continued)

WUNY-FM
Mr. Nathan Arnold Shaw, Station
Manager
WHYY, Inc.
4548 Market Street
Philadelphia, PA 19139
(215) EV2-9300

Audiotapes of programs available on exchange basis to education and non-commercial stations upon request.

#### SOUTH DAKOTA

KUSD-AM-FM

Mr. Jack Bruce, Director of Radio University of South Dakota Vermillion, South Dakota 57069 (605) 677-5277

Maintains a library of audiotapes available on exchange or loan to schools (in-state only).

#### TENNESSEE

WSMC-FM

Mr. Don Self, Program Manager Southern Missionary College Box 870 Collegedale, Tennessee 37315 (615) 396-2320

Maintains library of audiotapes available on exchange or cale to schools, libraries, industry, individuals, other radio stations. Listing of services and prices available.

WPLN-FM

Mr. David Marshall Stewart,
Educational Director
Public Library of Nashville and
Davidson County
Eighth Avenue N. and Union
Nashville, Tenn. 37203
(615) 244-4700

Maintains a library. Items are available only on individual pagement.

#### BEST COPY AVAILABLE

#### **TEXAS**

KUT-FM Mr. Robert F. Schenkkan, Manager University of Texas Box 7158, University Station Austin, Texas 78712 (512) 471-1631

Audiotapes of programs available for rental and sale to other radio stations. Catalog available.

KTCU-FM

Mr. Larry Lauer, Program Director Texas Christian University Fort Worth, Texas 76129 (817) WA6-2461

Maintains a library of l6mm motion pictures and audiotapes available on exchange or loan to schools, libraries, industry, etc.

KTXT-FM
Mr. Clive Kinghorn, Educational
Director
Texas Tech. University
Tech Station
Lubbock, Texas 79409
(806) 742-6276

Maintains a library of audictapes available on exchange or loan or free (for cost of tape).

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KSYM-FM
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San Antonio, Texas 78284
(512) PE4-5381, ext. 381

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KWBU-FM
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Audiotapes of programs available on exchange or rental to schools, educational and commercial radio stations. Catalog available upon request.

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Maintains a library of audiotapes and videotapes, printed scripts available on exchange or loan to schools, libraries, individuals, etc.

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WHA-FM
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State of Wisconsin
Educational Communications Division
Radio Hall
Madison, Wisconsin 53706
(608) 262-2720

Catalog available.

WSUS-FM
Mr. Albert Croft, Educational
Director
Wisconsin State University
2100 Main Street
Stevens Point, Wisconsin 54481
(715) 346-2696

Maintains a library of selected audiotapes available on exchange or loan to schools, libraries, industry and other broadcasting stations.

WSSU-rM
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Radio
Wisconsin State University
Superior, Wisconsin 54881
(715) 392-8101

Maintains a library of limited program material available on rudiotape. Program guide available request.



## About this catalog

There are about 10,000 programs in WHA-Radio's tape library. Because of limited storage space, not all programs are kept and few are kept for more than one year. Generally, therefore, the programs listed in this catalog fall into the following categories:

- 1) series currently being broadcast
- 2) series recently removed from the broadcast schedule
- series of timeless interest saved for rebroadcast
- 4) series in the permanent archive collection -

We have included both instructional (School of the Air) series and educational adult series which may have instructional uses. Not all of the tapes in WHA's library are listed because not all are permitted duplication. If you have questions about a particular broadcast, write for further information. Programs being produced weakly are available for duplication following the broadcast date. Consult a current Wisconsin School of the Air teacher's manual for this information.

Ours is a duplication service. No loan, audition or rental of tapes is possible. If you are not certain you want a complete series, order a few programs for use and evaluation.

Some of the series listed here are available for broadcast by other educational, no a immercial radio stations.

Please contact the Wisconsin School of the Air for broadcast prices and authorization.

# Ordering procedures

When ordering an audio tape copy (dubbing) of a program, give the Recording Service the following information.

- Title of series, number or broadcast year of series, titles of programs, and program numbers.
- Speed of the recording. We can record at 7½ and 3½ inches per second reel to reel, and 1 7/8 ips on cassette. No dual or four rack recordings reel to reel.
- Name and address of person to whom the bill should be sent.
   Name and address of person to whom the tapes should be sent.
- Number of programs to be recorded on each tape (compute the average length of programs and length of tape at the selected speed).

15 minute program @ 7½ jps = 600 ft

30 minute program @

3% ips = 600 ft 30 minute program @

7½ ios ≃ 1200 ft

60 minute program @ 3% ips = 1200) ft

30 minute program on each track = C60 cassette

(The convenience to the teacher in locating a program on the tape is a factor to consider.)

We recommend that you supply tape with your order. It is more convenient for us, and much cheaper for you. The tape we stock is expensive, low noise, broadcast quality with performance characteristics beyond what is needed for school use. However, tape can be purchased from WHA.

In supplying tape select name-brand, standard play, 1.5 mil tenzar or mylar tape. Reel size can be 5" or 7"; we

cannot work with reels smaller than 5". Cassettes should be C80 so that you do not have to interrupt listening to turn over the tape.

The prices quoted include mailing unless you wish first class or special delivery service.

Dubbing fee: \$2.70 per program

**Tape Prices** 

1200 foot: \$2.80 600 foot: \$1.70 C60 cers tte: \$1.85

EXAMPLE:

If you want to purchase WHA tape and record two 15 minute programs per tape at 7% ips the costs would be \$2.80 for a 1200 foot tape plus \$2.70 per program dubbing fee or a total of \$8.20 for the order.

NOTE: THESE PRICES ARE FOR NON-BROADCAST CLASS-ROOM USE. RADIO STATIONS MUST CONTACT THE WISCONSIN SCHOOL OF THE AIR FOR BROADCAST PRICES AND AUTHORIZATION.

We have a limited number of teacher's manuals and will provide one with the purchase of a complete series as long as the supply lasts. Please request a manual in your order.

Address orders to Recording Service, WHA-Radio, 821 University Avenue, Midison, Wisconsin 53708.



#### **New World** MEW LIVES

#### (Grades 5-9)

Toward providing background upon which to build more specific knowledge of Latin America and Canada, this series uses fictitious and often amusing characters and situations to illustrate and clarify broad historical concepts. A useful supplement to social studies. Series produced in 1961 Programs are 15 minutes in length.

- Bienvenidos, Amigos! 1.
- 2. What's In a Name?
- 3. Professor Pable
- 4. The Place of the Tenochcas
- 5. The Civilization That Corn Built
- Thatched Roof, Golden Earplugs 6.
- Hands That Rocked the Hammocks
- **Iberians** 8.
- Spaniards in Two Parts
- 10. When One Culture Meets Another
- 11. One Song, Two Verses
- With Grace and Gentleness 12
- Of Revolutions and Spanish Pans 13.
- 14. The Missing Keystone
- 15 Los Caudillos: The Dictators
- 16. There is a Difference Between Revolutions
- 17. The Continuing Revolution
- 18. The House of the People
- 19. Revolution in a Valley
- 20. Brazilian Pioneers-Old Style
- 21. Brazilian Pioneers-New Six le
- 22. How to Govern a Gaucho
- 23. Silver, Strangers, and Starvation
- 24. Naighbors
- Of Fish and Fur and Fool's Gold 25.
- **26**. Pots and Pans, Plows and Spinning Wheels
- **Birds of Different Feathers 27**.
- 28. A Family Matter
- 29. Hordes and Swarms and Herds
- 30. The End

#### Old Stories and New Ideas with Boris

#### (Grades 4-6)

Hazel Stewart Alberson has a rare ability to relate myths and fables of other worlds and ages to each man's every day. Selections from Greek, Roman and Norse legends, stories from Japan, China, Ireland, and Burma vuri des for Mrs. Alberson's modern applications. Karl Schmidt's presentation of these selections is an exce r example of story-telling as ar, we eart form. Teachers have used are uns to motivate further and, art work, creative writing, and special projects of many kinds. Program length varies from 16 to 25 minutes.

- Phaeton's Folly 1.
- 2. Hermes
- Flood Stories 3.
- **Prometheus**
- 5. Creation of Woman
- 6. Daedalus and Icarus
- 7. King Midas
- The Power of Music 8.
- Stories for Fun 9.
- 10. Hospitality
- **White Horses** 11.
- The Soil and the Seasons 12.
- Thor's Journey to Giantland 13.
- 14. Contests
- 15 Odysseus, the Adventurer
- The Poet as Storyteller 10.
- 17. Prelude to a Life of Heroism
- The Light and the Dark 18.
- 19. **Beginnings and Endings**
- The Story Teller's Use of 20. Animals
- 21. Stars in Your Past and Future
- Gratitude and Ingratitude
- Unpredictable Nature
- Father of His Country
- 25. Dragons-Friendly and unfriendly
- The Elenhant's Bathtub . **ئا** ئا
- 27. Conqueror of All
- 28. Wisdom in a Nutshell
- A New Story with an Old Formula **29**.
- 30. Athena and Athens

# Reckoning

#### (Grade 3)

Boris, President of the Finger Counters of the World, is a funny, stubborn, and dedicated hater of mathematics, who collides humorously with reasonable explanations of addition, subtraction, and multiplication—a nong other things. With his help, children begin to see mathematics as an entertaining man-invented subject, rather than an abstract, abstruse necessity.

The series is designed to supplement "new math" at third grade level, and is paced to stay a little behind the classroom curriculum. Programs are under 20 minutes in length.

- Mathematics Before Boris
- 2. The Value of Place
- 3. A Fight for Zero and Inequality
- 4. More Thousands and a Review
- The Road to Mathematics
- 6. Boris Begins Adding His Prob-
- 7. Additional Problems With the Ladies
- Sums, Differences, and Igor
- Reviewing with Ryegood
- 10. Some Strange Uses of Mathematics
- 11. The Matter of Two-Digit Addition
- 12. The Matter of Two-Digit Subtraction
- 13. A Very Merry Jack Horner Day
- 14. Another Addition and Subtraction Matter
- 15. Some Practical Addition and Subtraction
- 16. A Calculated Review
- 17. A New Device: Multiplication
- 18. Some Important Factors in Multiplication
- 19. One More Principle and a Few Facts
- 20. Some Factors and a Horse
- 21. Some Very Practical Multiplica-



#### A SAMPLING OF TEACHERS' PERSPECTIVES ON LISTENING

by

#### JIM FLEMING

Recently I polled a group of educators in an off-campus class with six questions on listening. They ranged from reading consultants, L.D. teachers, physical educators, to regular elementary class-room teachers. The following six questions were read orally to the group, without any discussion on listening, and with participants writing their responses.

- 1. Define "listening?"
- 2. What percentage of time do you spend teaching that involves listening in your class?
- 3. Do you teach listening in formal presentations in your classes?
- 4. Would you equate listening skills with I.Q.? Yes No
- 5. Would you equate listening skills with Reading? Yes No
- 6. What auditory learning materials have you used recently with your classes? equipment? commercial programs? to teach what?

Although the "N" was small (31), the responses do indicate needs, misconceptions, and awareness of listening and auditory learning. Perhaps one might wish to use these questions to sample other educator populations.

In reviewing the responses made to the six questions, I found the following:



Question #1 - "define listening"

The majority (17 of 33) of the respondents defined listening as

- (a) attending to auditory stimuli
- (b) attending and comprehending the spoken word
- (c) receiving and understanding information

Responses not categorized in the above three definitions varied from

"...the ability to hear"

"auditory reception attention"

"...receiving and recording facts..."

"auditory reception which is channeled to the brain"

"...ability to learn using the auditory sense"

This sample seems to reinforce what those people who have advocated the teaching of listening have been saying--educators too often limit the role of listening to just "paying attention" or "receiving information and understanding it".

Question #2 - "...percentage of your teaching involves listening by the learner...?"

A range of 15% to 95% was reported with the speech therapist's reporting at the 90 and 95 percentile.

#### Listening Time

61%	(19  of  31)			•	•	٠	•	•	•	•	50-80%	
19%	(6 of	31).	•	•	•	•	•	•	•	•	15-33	1/3%
13%	(4 of	31).	•		•	•	•			•	85% or	more

Only one respondent was unable to estimate the percentage of time, while another wrote the comment "70% - should be 15%".

It does appear that the teachers do in fact out-talk the learner and are unaware of its importance in the classroom. Dr. Steven Corey, in a study of high school classes in 1940, reported teachers talking with students listening ranging from 45% to 80% of the class time in Science, History, and English classes. He further pointed cut "...in terms of averages, the chances were about sixty to one that the teacher of a class rather than a particular pupil would be talking at any one time, and two to one that teachers, rather than pupils, would be talking." Wilt, in her 1949 dissertation - "A Study of Teacher Awareness of Listening as a Factor in Elementary Education," reports the following:

- (1) Seventy percent of teachers surveyed (N=1452) considered reading, speaking, and writing more important than listening.
- (2) Observations of classrooms found the "supposed to be listening" time to be 57.5%.
- (3) Teachers surveyed by a questionnaire had reported less than 28% of the school time involved listening.
- (4) "If these findings are representative, then approximately 89% of the children in the nations schools are expected to learn through listening more than 50% of the classroom time."



Question #3 - "...do you teach listening?"

Seventy-seven percent of respondents reported they do teach listening in their classes. Comments added to the questionnaire stated "at the beginning of the year," "used activities that dealt with following directions," and one person indicated that a commercial listening program was used in their school system.

Do teachers continue, throughout the school year and up through the grades to teach listening? Can we get teachers to think of listening as more than just following directions?

Question #4 - "...equate listening with I.Q.?"

Responses to this question indicated a split decision or 52% (16 of 31) said "yes" and 48% (15 of 31) indicated they do not equate listening with I.Q.

Question #5 - "...equate listening with reading ability?"

Eighty-seven percent of the group (N=27) surveyed indicated "yes"-they do equate listening abilities with reading ability.

Although research is still limited in the area of listening and auditory learning, it does indicate listening is related to intelligence, but not necessarily equal if adjustments and/or modifications are made for the specific learner. There is at present no strong supportive evidence that equates listening ability level to reading level ability. There is evidence, however, that listening ability does deteriorate as reading level increases through the grades.

Question #6 - "...auditory learning materials and media used recently to teach what?"

Tape recorders and language matters (audio-flashcard readers) were the two most commonly mentioned audio equipment items. A variety of commercial materials were reported, but they were generally used to build or teach auditory discrimination, memory, phonetic skills and following directions. Many teachers indicated they used their teacher-made tapes and flash-cards prepared by themselves.

This question seems to indicate several basic factors involving teaching materials via the auditory channel:

- (1) Teachers are either unaware of or limit the role of auditory learning in their classrooms.
- (2) Teachers find that many existing materials are unsatisfactory, cost too much, or are unavailable.
- (3) Teachers report there is a lack of materials for their specific needs.



The survey does support many of our ideas and our goals this year. A teacher orientation to the vastness of auditory learning is a needed target project. We need not only add to existing materials and classify existing materials, but also to create and/or adapt new materials for a channel of learning too often ignored.

It might prove rewarding and/or beneficial if one could survey larger groups of educators on a pre and post basis to find out if one can effect change and wider acceptance to auditory learning as a major input or advantaged instruction system.



## A POSTSCRIPT SAMPLING OF TEACHERS' PERSPECTIVES ON LISTENING\*

by

#### JIM FLEMING

A second off-campus class of educators were asked the identical questions as found in the survey report of October 28, 1973. This group was composed of regular and special education teachers and consultants. Their responses were found to be rather closely aligned with group I's.

Question #1 - "define listening"

Definitions of listening by this group were as similar with terms such as, "concentrating", "decoding", "attending", "hearing", "being aware of", and "effective use of aural systems" used more frequently. Auditory symbols or sounds was referred to or used in most definitions. One teacher defined listening as "being aware - caring - and feeling for others - to truly hear and feel what is said." This is how she approaches teaching listening in a 4th grade classroom for learning disabilities.

Question #2 - "...percentage of your teaching involves listening by the learner..."

The reported range of 10% to 85% of classtime was as extreme as Group I's 15% to 95%. This group indicated the following results:

\*See "A Sampling of Teacher's Perspectives on Listening" Media and Materials Development Unit report of 10/28/73.



#### Class time

47% (9 of 19) . . . . . . . . . . . . . . . 50-80%\*
15% (3 of 19) . . . . . . . . . . . . . . . . . 85% or more
36% (7 of 19) . . . . . . . . . . . . under 50% (10% to 30%)

Sixty-two percent of this group indicated half or more of their class time involves listening. This is very close to the findings of Wilt, 1949, who observed a sampling of classes and found the average to be 57.5%.

Question #3 - "...do you teach listening?"

Fifty-five percent of this group reported they do teach listening, as compared with 77% reported by the Group I survey. Qualification statements and later statements of the survey cards do, however, indicate they are teaching very basic parts of listening (discrimination, matching, and classification). Thirty percent of the group indicated they do not teach listening and 15% indicated sometimes.

Question #4 - "...equate listening with I.Q.?"

A split decision was found again with 55% indicating "No" and 45% indicating "Yes" they do equate listening with I.Q. Group I findings were similar (48% 1 ported "No" - 52% reported "Yes").

Question #5 - "...equate listening with reading ability?"

A clear majority 95% (19 of 20) do equate listening ability with reading ability. How they would explain a young child's acquisition of language, nursery rhymes, the retarded's memory for pop songs, etc. would be interesting to pursue.

Question #6 - "...auditory learning materials and media used..."

Again many indicated a wide variety of materials, more commercial programs indicated, with the record player, tape recorder, and language master mentioned frequently.

\* One class member was not presently employed in education.



## RESULTS OF SITE VISIT TO WAVERLY LEARNING CENTER

BEST COPY AVAILABLE

by

DAVE BROSKI JIM FLEMING MARSHA SMITH

Teachers needs and evaluative comments in regard to auditory learning (auding) materials provides guideposts and the impetus to review and research focal points. Auditory learning is virtually an untapped resource that often goes unrecognized in many educational systems. Simple logic and research indicates that one could use this learning channel to promote the cognition, psycho-motor, and affective domains. This is "advantaged instruction" and should not be confused with remedial or supplemental instruction.

One needs to take a global review of teachers' reported needs to auditory learning and specifically to subject or content area along with a description of the learner. These dimensions can provide focal points for material development, modifications and review of existing materials. Teacher needs in this area are not confined to materials or programs alone. Procedures for technical assistance or acquistion of specific hardware equipment, media resources, and guidelines for handling equipment are still another request area.

We can place material needs for auditory learning within the categorical areas of special education. The needs for children found in TMR programs differ widely from those in L.D. programs, visually impaired, or within the regular classroom. This is not to say that any materials developed or modified should be used exclusively with only the original group. The materials are to be researched for effectiveness as advantaged instruction by various style or impaired learners.

\* \* \* \* \*

A recent visit to the Waverly Learning Center produced a series of concrete suggestions for developmental activities by the Media - Materials Unit. Learning Center Staff recommendations will be discussed under three subheadings: (1) content areas, (2) material formats, and (3) equipment.

#### CONTENT AREAS

Two distinct units are in operation at the Center: (1) a Trainable unit and (2) a Learning Disabled unit. Suggestions were taken from each.

Trainable Unit The following content areas seemed to be most consistently of concern:

- (1) Self-care dressing, undressing, hygiene
- (2) Self-control respect for others, adjusting to schedules, waiting in turn
- (3) Foods eating habits and procedures in the cafeteria, trying different foods, use of menus from the cafeteria as stimulus



- (4) Safety household dangers, poisons, street and environmental safety
- (5) Names differentiating first and last names
- (6) Classification ability to order, group, or sequence by: size, shape, color, where found, use, when, how, and why. Classification exercises to range from manipulative objects to familiar household goods.
- (7) Following directions

Learning Disabled The following content concerns were covered:

- (1) Spelling demons differentiating between words such as THOUGH and THROUGH
- (2) Social Studies
- (3) Science
- (4) Language Arts reading comprehension, vocabulary building
- (5) Following directions

#### FORMATS

Formatting specific content concerns were discussed during the visit. Suggestions and ideas mentioned are documented in this section.

- (1) Ideal word building tapes existing cassette tapes require learners to perform activities with paper and pencil. Academic levels of learners using the tapes vary, causing problems in individualizing to rates of acquisition. If was suggested that three of these tapes be expanded 25% and three compressed 25% to accommodate these differences. This has been completed and awaits field-testing.
- (2) Consideration is being given to developing units using the Linguage Master or a compatible unit such as the Audiotronus Tutorette.

  The Learning Center recently purchased the latter and the staff there is eager to put it to use. The following format ideas based on this piece of equipment were drawn:
  - (a) Labeling Sounds Cards with sounds of a particular grouping, such as animal sounds, household sounds, outdoor sounds, etc. might be presented followed by its name. The Cards developed could be used to build vocabulary, to organize into groups of a common nature, or to act as a stimulus for questions such as: Where would we find these sounds? What do they represent? How do we use the objects they represent in our daily lives? Can you put these sounds into a story?
  - (b) Language Master cards could contain directions to follow in a Treasure Hunt. For example, the first card played gives the directions to a child for finding the second card, and so on. This might be used in developing the ability



to follow directions. If the directions were quite specific in terms of the number of steps to take in a certain direction to find the next card, they might be used in mobility training for the blind.

- (c) Language Master cards might contain specific instructions for participation in a game or other structured activity.
- (d) Spelling demons might be presented on the card, spelled to the student, and used in an appropriate context to illustrate its meaning.
- (3) Music The center has a collection of records for classroom use. There were, however, some suggested modifications for the Trainable Unit. For example, if the recordings were transcribed to cassette, a pulse causing the tape to stop could be added when the recording calls for the child to perform some act. This would give children more time to follow the directions given.

#### EQUIPMENT CONCERNS

The staff at the Learning Center related some concerns relating specifically to equipment.

- (1) Number of listeners per recorder It was felt that a significant distraction was caused when a child or a small group of children were listening to a tape. We have on order a "listening post" arrangement for our field-testing. This will allow us to equip from one to eight listeners with headphones, out of a single playback unit.
- (2) Headrets Existing headsets at the Center are equipped with standard phone plugs and, therefore, not compatible with the cassette playback units they are using. We suggested they purchase some adaptors to convert the phone plugs to phono.
- (3) Some children in the Trainable Unit are not verbalizing with either the teachers or the other students. It is possible to put a speaker in a stuffed animal and/or accompany it with a voice activated microphone to present material and record responses.
- (4) Another possible equipment modification might involve a telephone. The receiver unit might present information and the mouthpiece might record responses.
- (5) The Lexicon speech compressor is now being connected to the strip-chart recorder. This will provide us with some date regarding listening rate preferences of children.

\* \* \* \* \*

In summary, the site-visits to education programs provided input to this unit regarding content areas, format ideas and concerns regarding equipment. It provided first-hand input from teachers that is transferable in terms of the advantaged Auditory Learning Project.



In the terms of our proposal, the Site experience generated several target areas for possible (feasible) materials development, modification, and/or evaluation. Upon referring to Carlson's diagramatic representation of Learner Levels (stages) one finds specific needs for fours at particular stages.

It would appear that at Stage I the focus of impetus for materials will be self-help, self-discovery and environmental discovery, as has been explained in this paper. At Stage II one finds a broader need that encompasses the usual curricular areas such as Spelling and Math. Stage III has yet to be fully explored and provides a target for the Materials Development Unit for site visitations and questions and answer sessions with teachers.

The affective domain, although not a primary concern at all sites, was expressed. It is receiving play in the education field by many manufacturers and teachers of regular class students but was not of consistent importance with the school teachers with whom the Media and Materials development Unit spoke.

Ideas generated by the Media and Materials Development Unit staff regarding materials modification (i.e. button box, compressed speech and adapting of larguage master card, etc.) appear to be in line with and of interest to classroom teachers' needs.

November, 1973



#### **SECTION TWO**

## THE DEVELOPMENT AND MODIFICATION OF AUDITORY INSTRUCTIONAL MATERIALS

#### **OVERVIEW**

Once the universe of available auditory instructional materials was surveyed and teachers' needs were expressed and determined, available materials were modified and new materials were developed. Section Two provides a look at this endeavor. First, a brief position statement of the developmental focus with a specific audience is given. Second, examples of ideas for new materials are presented. Third, a design guide generated by the staff indicates developmental procedures. Fourth, examples of user guides to accompany listening materials are presented as tangible products.





#### AUDITORY LEARNING AND LEARNING DISABILITIES

by

JAMES W. FLEMING S. JOSEPH LEVINE

The use of auditory instructional materials has large potential with the population of children who have learning disabilities. With this population, the largest percentage are reported to have reading problems and/or visual motor difficulties. Auditory instructional materials can provide a viable form of input to these learners.

Little specific lesearch has been conducted regarding alternate forms of auditory presentation that may benefit different types of learning disabled children. The use of compressed and/r expanded speech may prove helpful to the easily distract child. The reluctant or withdrawn child may benefit for "private" listering experiences. For the anxious child the use of student-paced material with built-in feelback or equipment that will record the student's voice along with that on the tape may prove reassuring.

The area of learning disabilities is just beginning to utilize a fairly large amount of auditory learning materials to assist in instruction. In the very near future there will be a growing need for the creation of specific auditory learning materials for identified learning disabled children and also the training of teachers in the design and use of these materials. From all indications we are moving rapidly in the direction of increased instruction through the auditory modality and it would seem that many learning disabled children will benefit from this increased emphasis.

January 1974



#### IDEA FOR NEW MATERIAL

by

#### S. JOSEPH LEVINE

A unique nonverbal auditory material could be built around an audio flashcard system. The material would utilize a card (audio flashcard) with magnetic recording strips at both edges (top and bottom) of the card. The front of the card would key in some manner to allow the learner to know which side to place in the machine first. He would also be instructed to push button number one to get his beginning instructions.

Upon pushing button number one he would receive a nonverbal stimulus (i.e., a person laughing, crying, shouting, etc.). The other three buttons would present sounds in context. (i.e., the sounds of a supermarket, the sounds of traffic in a large city, the sounds of a party, etc.) The learner would listen to each of the last three buttons and decide which context sound included the stimulus sounds. He would then make his decision, take the card out, turn it over, and reinsert it in the machine, and push the button that he felt provided the sound in context. If correct, he will again hear the sound in isolation.

The unit would obviously teach auditory discrimination, but it could also be used to teach association of feelings with context. The real problem in the development of such material would be the procedure for assessment of learning. Without saying, the assessment procedure would have to be a nonverbal procedure.

The cards for such a material could be constructed for field testing by merely cutting two cards in half, salvaging each half with the recorded segment, and taping them together.

October 9, 1973

## IDEA FILE: IDEA FOR MATERIAL MODIFICATION

by

#### MARSHA C. SMITH

Many materials recorded are, according to teachers who are presently using them, too fast moving for the trainable child. It is a fact that young children (young either chronologically or by mental age) enjoy and learn from repetition. Another factor in the teaching and children is their ability to relate to concrete chacts. With these things in mind, an idea for the modification of children's songs, already in use and generally enjoyed by teachers and children alike, to make it more useful in the context of the actual learning experience, has been generated.

#### The hypothesis is:

- 1) Given the children's song in its present form, although interesting and enjoyable to listen to by the children, it will be hard for them to relate to or to keep up with in both <u>learning concept</u> and in active participation.
- 2) With the modifications made as described below, it is hypothesized that
  - a) the children will be more easily able to participate in the action pantomime or other directions (with less teacher direction) and
  - b) will have gained in the general knowledge and objectives (concept development) as put forth by the material itself.

The subject matter (Self-Care) and the general level for which this idea was generated was taken from general conversation with teachers of trainable retardates at the Waverly Learning Center.



The modification of a single lesson might look something like this:

Song - (as now recorded) for listening only

Narration - brief instructions for following segment

Song - for use with concrete objects or manipulative activity not necessarily in time with musical accompaniment

Narration - brief instructions to "do as the song tells you to"

Song - at expanded rate with time allotted for child to carry out the directed activity. This might be facilitated by the use of an automatic "stop" (Red Button machine?) and the tape to be restarted when the child is ready.

Lesson may be stopped at this point....

Narration - briefly telling child to listen again and do what the song says

Song - this time at regular speed again for child to interact at faster speed

An example of a practical application follows:

Song: "What are you wearing?"

Lyrics: "If you're wearing a dress, Stand up."
"If you're wearing a dress, Stand up."

First exposure - Listen

Second exposure - as per instruction, handle appropriate doll's clothes or, on a more visual but not so concrete note, point to appropriate visual image (such as Peabody Cards) of a dress.

Third exposure - Listen to EXPANDED song having them DO as they are directed. With "stop" they begin again when all those wearing dresses have stood up.

Fourth exposure - (if desired) - When children are ready, play
the song through at regular speed and see how
children are (hopefully) better able to identify clothing and keep pace with activities
on recording.

In this form the child would be exposed to the song four times per lesson and asked to participate at four different levels.
(1) listen, 2) concrete activity, 3) slowly participating, and 4) participating at regular speed)

At the trainable level, the objective of such an activity might be following directions, or identifying clothing or both. Pre/Post evaluation of content area could be made possible while ability to attend and follow directions would be observable. Perhaps thinking along the lines of regular speed at shorter intervals might also be explored in the effort to modify such a material.

This is just a "rough" of an idea...suggestions, criticisms and general modifications of this modification accepted.

November 8, 1973



#### AUDIO JIGSAW PUZZLES

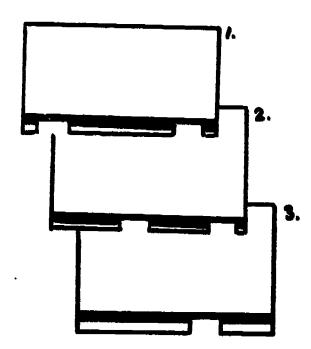
by

#### S. JOSEPH LEVINE

All of the available audio flashcard materials contain some amount of visual material. A picture, word, diagram, etc. is printed on the upper part of the card. This visual material is usually used as a stimulus (presentation of information) and the auditory portion of the card is used for either clarification, reinforcement, or feedback. No existing audio flashcards are produced without this visual component.

The design of an Audio Jigsaw Puzzle is built around the premise that both stimulus and feedback can be created on the audio portion of an audio flashcard.

An Audio Jigsaw Puzzle consists of two or more audio flash-cards designed for the EFI four track configuration. It is suggested that no more than four cards be used to make up the puzzle. Each card has a one inch notch cut from the bottom of the card. The notch extends to the second track of information thereby leaving the first track intact. The configuration of notches for a three-part puzzle are shown below.



It should be noted that each card has a single randomly placed notch and cards #1 and #2 also have a second notch which is in common with each other. This placement of notches allows for organizing the puzzle in six different arrangements for use (all possible combinations).



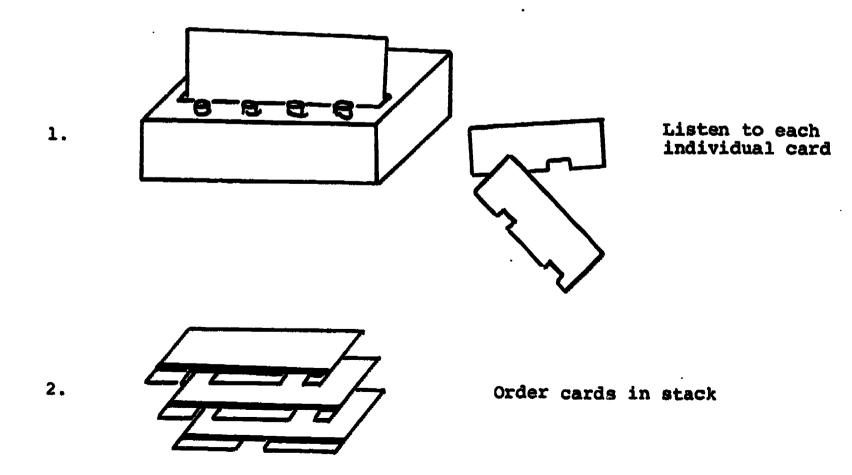
The Audio Jigsaw Puzzle format is seen as an interactive procedure to be used to supplement an existing auditory material. Its prime use would be to reinforce specific aspects of the existing auditory material. As such, it would provide a viable procedure for modifying a learning experience to enhance learning without the necessity of modifying the existing material.

#### INSTRUCTIONAL SETTING



The Audio Jigsaw Puzzle would be designed to underscore the main points developed in the existing auditory material. Further, it would utilize an entirely auditory format, rather than audio/visual or visual, to do this.

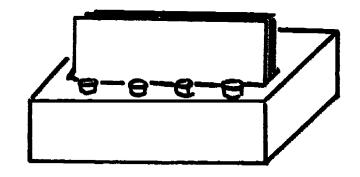
The Audio Jigsaw Puzzle is used optimally for information that must go in a specified order or sequence. In use, the learner would listen to the stimulus on each individual card. Then, sequentially order the cards in a stack based on the information found on each card. Finally, he would insert the entire stack in the card reader. If correct, he would hear a complete message. If incorrect, the message would have gaps.





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3.



Put entire stack in card reader

To record an Audio Jigsaw Puzzle, the teacher would first put the stack in the card reader (in any arrangement) and record the feedback track (track 3 or 4). Then, each individual card, in order, would have a single stimulus recorded on track 1.

Such a material as the Audio Jigsaw Puzzle has a number of distinct features which make it practical for use in instruction.

- -- a manipulative activity whereby the student is physically involved in the instructional process.
- -- a simple procedure for both teacher preparation and learner use.
- -- an "add on" material that can be created to accompany any existing material.
- -- it would reinforce selected concepts and hence serve to highlight the primary aspects covered in an existing material.
- -- would not be dependent upon a visual component.

  (Though, a visual component could be added without altering the concept.)

November 5, 1973



#### AUDITORY INSTRUCTIONAL MATERIALS DESIGN GUIDE

by

#### S. JOSEPH LEVINE

This Design Guide is an attempt to describe a number of different formats for the design and development of tape recorded auditory instructional materials. No attempt has been made to include every possible format. Instead, a selected group of formats have been described which:

- a) indicate potential for use with handicapped learners who learn best through the auditory channel,
- b) do not necessitate any print or visual material,
- c) provide an expressive opportunity for the listener,
- d) can be used to support existing instructional programs, and
- e) are not readily available in tape recorded form for present use with these learners.

Each format is described in a very brief paragraph. Following the paragraph is a schematic representation of the material and its use. For the schematic representation, the shaded area denotes the part of the instructional experience that is provided by the tape recording.

FOCUS: Eliciting feelings, awareness of people and things.

DESCRIPTION: A series of simple statements are presented to the listener without including the resolutions to the statements, (i.e., "Sometimes when I wake up in the morning I really fee! like going to \_\_\_.") The entire series evolves about a central theme. (Community Helpers, Going to the Zoo, Feeling Happy, etc.) The listener responds to complete the statement. The central theme is discussed at the conclusion of the series.



Response



Response



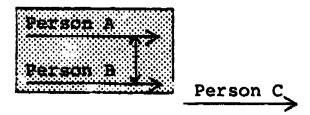
Response Discussion



FOCUS: Responding to situations.

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DESCRIPTION: An audio recording is provided that presents two children arguing (discussing, talking, etc.). At a certain point in the argument, a third person is introduced on the tape and asked to help resolve the argument. ("Wait a minute, here comes someone that can help us. What do you think?") The listeneris asked to play the role of this third person and respond to the situation.



FOCUS: Personalizing a recorded story, forced responding.

DESCRIPTION: An audio story is presented to the listener. At periodic points in the story, there are pauses where the listener inserts some content appropriate to his own background, experience, or desires. (i.e., "One day I was walking down the street, and I saw a big and ugly that was sleeping under a light post. As I got closer I heard him saying in his sleep." etc.)





FOCUS: Awareness of feelings, people, or things

Throughout the presentation the detective uncovers clues that provide information to the listener about the identity of what is being searched for. Periodically the recording is stopped and the listeners discuss what they have learned about the mystery and make guesses about the identity of the unknown. The unknown can either be a concept, value, idea (i.e., love, understanding, friendship, etc.), or a person or thing. The discussion can also focus on how you can find out information through systematic procedures.

discussion



discussion



discussion

FOCUS: Stimulating story telling.

DESCRIPTION: The listeners are presented with a set (2 or 3) of short stories. All of the stories evolve about a central theme that is presented to the listeners prior to the listening experience (i.e., sad stories stories about a friend, unusual stories, stories about animals, etc.) At the conclusion of the recorded stories, the listeners are asked to tell their own stories. Their stories should be on the same theme.



Listener's Stories



FOCUS: Understanding other people.

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DESCRIPTION: The listeners are presented with a narrat. 'e about a person. The narrative describes some actions of the person in different situations. Following the narrative, the listeners are asked a set of structured questions like:

"What does this person look like?"

"How would this person respond to this situation ?"

"What are this person's friends like?" etc.



Discussion

FOCUS: Understanding other people.

DESCRIPTION: A situation is presented to the listener either through a "radio-drama" format or a story telling narrative. At the conclusion of the situation, the listener is asked to tell how a specified person "would" or "should" respond. (i.e., "What would a policeman do if he came upon this situation?" or "What should your mother say to the little boy?" etc.)

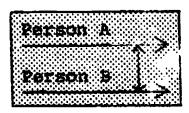


Response

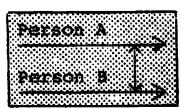


FOCUS: Observing behaviors.

DESCRIPTION: An audio recording is provided that presents two or more people in a conversation (debate, argument, etc.). At a key point in the conversation, the tape is stopped and the listener is asked to hypothesize what will happen next. The listener is further probed regarding how he developed his hypothesis ("Why do you think that?" "What did you hear that helped you make that decision?" "What else could happen based on the behaviors you have noted?" etc.). Finally, the tape is restarted and the incident is resolved.



Discussion



FOCUS: Feelings about other people.

DESCRIPTION: An audio story is presented that uses a "unique" voice within the story. (i.e., speech defect, inner-city slang, foreign dialect, inappropriate verbal expressive affect, etc.). The discussion following the playing of the recording begins by focusing on the story and then gradually shifting to a discussion of the person with the "unique" voice. "What kind of feelings do you have about the person?" "What does the person look like?" "Have you ever met a person like that?" etc.



Discussion



# USER GUIDE

# "THE VELVETEEN RABBIT" - PART

No part The Velveteen Rabbit, by Margery Williams, is a dramatized story in four parts. This part may be used in isolation or the entire sequence may be played at one sitting. exceeds ten minutes in length.

## GOALS:

For students to:

- --appreciate the value of loving and being
- --appreciate the notion that physical appearance is not all important.

# STORY OUTLINE:

The velveteen rabbit is found in the Boy's stocking on Christmas morning. The velveteen rabbit feels inferior to the more expensive and elaborate toys.

73

The velveteen rabbit receives the counsel of the wise old Skin Horse.

The rabbit learns what it means to be REAL.

The rabbit is loved by the Boy and becomes

# PROCEDURE:

1. INTRODUCTION - before playing the tape, say to the class:

After we listen, "This is a story about a Christmas present a little boy received. Let's listen to the story. we'll talk about it."

- Observe reactions from (See TEACHER EVALUATION 2. Play the tape. the children. FORM)
- (See DISCUSSION HINTS) 3. Discuss the tape.
- EVALUATION at the conclusion of the experience, check the appropriate blanks on the short TEACHER EVALUATION FORM that is included. 4.

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# DISCUSSION HINTS

# 1. What is this story about?

The primary focus is that being loved is more important than physical appearance.

2. What did the Skin Horse tell the Velveteen Rabbit?

The Skin Horse told the Rabbit that being loved by a child is what helps you to become REAL. Once you are loved, your physical appearance no longer matters.

3. The Velveteen Rabbit wanted to become REAL, yet he didn't want to become shabby too. Which do you think is more important? See how the students view the situation. Is being loved worth making sacrifices?

4. Can you think of anything that has happened to you that is like this story?

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# TEACHER EVALUATION FORM

How attentive were the students during the tape? (circle the appropriate number)

Very Somewhat Not Attentive Attentive 5 4 3 2 1

How did the students respond to the discussicant the conclusion of the tape?

Very wellOKNot Well54321

Do you think the students enjoyed the tape?

74

A lot Somewhat Not at all 5 4 3 2 1

How would you rate the tape?

VeryNotworthwhileOKworthwhile54321

Comments:

## "SOMETIMES I FEEL LIKE"

"Sometimes I Feel Like" is a musical presentation in sing-along style expressing thoughts and feelings. Children are covertly encouraged to participate and sing along. Recording was made before a live audience.

### OBJECTIVES:

For students to:

- --express their feelings.
- --understand that others have similar feelings to theirs.

## FEELINGS EXPRESSED:

The feelings presented both by Mr. Medema and the children are the following:

Sometimes I Feel...

- --like saying how I feel
- --like being all alone
- --as happy as a lark
- --like fooling around
- --like singing a song
- --a little bit sad
- --I'm different from anyone else
- --I'm glad I'm alive

## PROCEDURE:

- Begin by introducing the tape and describing what the children will be doing during the playing. (see INTRODUCTION HINTS)
- Ye play the tape. You will want to sing along with the recording to model for the students what is expected of them. It will be evidence when you are expected to participate.
- 3. Discuss the tape. (see DISCUSSION HINTS)

## EVALUATION:

At the conclusion of the experience, check the appropriate blanks on the short Teacher Evaluation Form that is included.

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St.f. 11:48 1 FEEL LIKE USER GUIDE (Continued)

## INTRODUCTION HINTS

Before playing the tape, say to the class: During the tape you will After we listen to the tape, we'll talk want to sing along at different times. "This is a tape of a new song we will about the new song." want to learn.

Begin the tape.

## DISCUSSION HINTS

What is this song about?

REST COPY AVAILABLE The focus is expressing feelings we have and that we all have similar kinds of feelings at one time of another.

Can you remember any of the feelings we sand

Being all alone, happy as a lark, fooling around, singing a song, a little bit sad, different from anyone else, glad I'm alive.

Can you think of another feeling we might have sung about?

crying, smiling, hitting, kissing, loving, etc.

Can you think of some way you particularly feel sometimes?

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Do you think that other people feel that way

## Follow-up Suggestions:

- --have children illustrate a feeling they have sometimes.
- --write a story about a person and a feeling and what he does about it.
- uals or pairs play out a feeling. Have others guess how he feels and possibly why. --role-playing --without words have individ-You can assign specific feelings or let the children choose one.
- --Using the same tune improvise the song in your own classroom.

_	_	
•	when a	
	tape	1
:	the	
•	with the	
•	s sing along	ŀ
•	sing	•
•	Did the students	to?
•	the	instructed
•	DIG	inst

How attentive were the students during the tape? (circle the appropriate number)

TEACHER EVALUATION FORM

USER GUIDE (Continued)

Attentive

Attentive

Attentive

S

Very

Somewhat

~

Not

2 Somewhat Yes Ŋ How did the students respond to the discussion at the conclusion of the tape?

Not well ~ OX O Very well

Do you think the students enjoyed the tape?

Not at all Somewhat A lot

How would you rate the tape?

worthwhile ~ OK worthwhile Very S

### Comments:

## USER GUIDE

## LINCOLN'S ASSASSINATION

## STORY OUTLINE:

This is an historical reenactment of the events surrounding Abraham Lincoln's assassination and the subsequent search for John Wilkes Booth. The format is similar to a news resporting broadcast.

### OBJECTIVES:

## For students to:

- --develop an appreciation for history through a simulated, "you are there" format.
- --understand the events surrounding this momentous historical occasion.

### PROCEDURE:

- 1. Begin by explaining the purpose of the tape, cautioning the student to listen carefully.
- 2. During the pre-test, if more time is required to give a response, stop the recorder.
- 3. Play the tape.

## PRE AND POST TEST ITEMS

## True or False

- ' 1. President Lincoln was shot while addressing a victory celebration outside Ford's Theater.
- T 2. John Wilkes Booth, the president's assassin, injured his leg when he leaped from the presidential box.
- T 3. President Lincoln suffered a fatal gunshot wound in the head.
- T 4. Sergeant Boston Corbett said he shot Booth in self-defense.
- T 5. At the time he was elected to the Presidency, Lincoln was a lawyer in Springfield, Illinois.

If you could listen to another tape about history, what would you like it to be about?
 Why do you think John Wilkes Booth killed President Lincoln?

3. If you must learn about history, what ways would you like to learn about it?



USER GUIDE (Continued)

DISCUSSION QUESTIONS

### "GORGOLS"

"Gorgols" is a musical story that structures interaction within the classroom by having the students participate by "singing along" at various points in the story.

### OBJECTIVES:

For students to:

- --participate in an interactive group situation.
- --express their feelings of love and liking others.

## STORY OUTLINE:

Information - who is Gorgols. (an ugly animal with a body of a turtle and a head of a person)

Gorgols is found by a girl. (the girl likes Gorgols)

Gorgols is brought home by the girl. (the girl is sure it will be okay)

The girl's parents send Gorgols away.

(he is too ugly)

The girl runs away from home. (she wants to be with Gorgols)

The girl is afraid of the dark. (wants to be home)

The parents "rescue" the girl and Gorgols. (they'll let Gorgols live at home)

Everyone gets to like Gorgols.

Gorgols is really a little boy. (his shell disappears through love)

### PROCEDURE:

- 1. Begin by introducing the tape and describing what the students will be doing during the playing. (see INTRODUCTION HINTS)
- 2. Play the tape. You will want to participate along with the recording to model to the students what is expected of them.

  The tape will indicate when to participate.
- 3. Discuss the tape. (see DISCUSSION HINTS)

## **EVALUATION:**

At the conclusion of the experience, check the appropriate blanks on the short Teacher Evaluation Form that is included.



### "GORGOLS" USER GUIDE (Continued)

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## INTRODUCTION HINIS

Before playing the tape, say to the class:

"This is a musical story about an ugly animal named Gorgols. During the story we will all have a chance to sing at different times. Let's listen to the story. After we finish listening, we'll talk about the story."

Begin the tape.

## DISCUSSION HINTS

What is this story about?

The primary focus is "love" and expressing love to someone else.

Who is Gorgols?

Gorgols is a little boy. Probe the group further if they still view him as an ugly animal. ("Who is Gorgols now?)

Why did the girl run away from home?

She wanted to express concern for Gorgols.

Was the girl right in running away from home? Why?

This is open-ended. See how the students view the situation. You may want to probe further. ("Is there a time when it is right to run away from home?" "What can you do instead of running away from home?")

Can you think of anything that has happened to you that is like this story?

"GORGOLS"
USER GUIDE (Continued)

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## TEACHER EVALUATION FORM

How attentive were the students during the tape? (circle the appropriate number)

Not Attentive	7
	7
Somewhat Attentive	m
	4
Very Attentive	ın

Did the students sing along with the tape when instructed to?

No	7
	7
Somewhat	m
	4
Yes	75

How did the students respond to the discussion at the conclusion of the tape?

Not wel	~
	7
OK	ო
	4
Very well	ហ

Do you think the students enjoyed the tape?

t all	-
Not at all	
ı	7
Somewhat	ю
	7
A lot	Ŋ

How would you rate the tape?

	Not worthwhile	-
		7
	OK	m
300 000	<b>O</b>	4
TOW MORE TON	Very worthwhile	ĸ

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Comments.

## USER GUIDE

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## FINNEGELMYK VISITS THE EARTH

### STORY:

tour. Ecological and environmental aspects of food, health, spatial freedom, pollution, etc. are discussed in an interesting and humorous by Finnegelwyk is sent to the Earth and meets an Earth man, Mr. Green, who takes them on a To determine if the planet Earth is ready to join an Interplanetary Galaxy, a team headed format.

### OBJECTIVES:

For students to:

- --understand how an ecological look at our earth might appear to an outsider
- --identify a few sources of ecological problems

### PROCEDURE:

- Begin by explaining that the student(s) are that they can answer some questions at the about to hear a tape about what might be found on our planet. At the beginning of the tape they will be told to listen so end. A.
- interrupt during the recording. If this student to listen until the end when it will be appropriate for him to respond. Sometimes a student may happens, stop the tape. Encourage the Play the tape.

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- (NOTE: record the instances of laughter or when the student smiled, appropriate or inappropriate.)
- push the button to restart the recorder when After the story is over, the questions will be asked again. This time the students response to the questions. The student can will be asked to respond. The tape will stop after each question for student rehe is ready to answer the next question. It is not necessary to restart the tape after the answer to the fourth question

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- the questions on the tape, discuss the After the student has responded to all following questions. <u>.</u>
- (or what did you like about the story. --What interested you about the tape?
- --What were the sad things about the story?
  - --What were the funny things?
- --Rate the tape, i.e., what did you think of the tape? (Give @ rating scale.)

## FINNEGELWYK VISITS THE EARTH USER GUIDE (Continued)

# THE QUESTIONS AND SOME POSSIBLE ANSWERS ARE:

- 1. Why did Finnegelwyk visit the earth?
- --to find out enough about the planet to decide if Earth should be included in the Council.
- -- to see what it was like.
- --to see how people lived
- What did Finnegelwyk think about the food earth people eat?
- --that it is non-nutritional and could be dangerous to health.
- --that we eat too much of the wrong kind.
- --makes people fat.
- --we eat too much sweets.
- --has terrible taste (coffee).
- --thought it was strange, tasted funny
- . Mr. Green mentioned some reasons people live in cities. What were the reasons?
- --convenience, all "necessities" are reasonably close at hand.
- -- close to jobs and stores.
- -- living in country too hard.
- --that's where everybody lives.
- 4. What are some of the causes of air pollution?
- --factories, cars, cigarettes, power plants
- --smog, gases,
- --exhaust fumes
- --airplanes, people burning leaves, etc.

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### SECTION THREE

### EVALUATION OF AND OBSERVATIONS TAKEN FROM FIELD-TESTING AUDITORY INSTRUCTIONAL MATERIALS

### OVERVIEW

Following the modification of existing auditory instructional materials and the development of new ones, staff efforts vere concentrated on the formative evaluation of these materials with target audiences in their class rooms. In Section Three, an overview of field-test procedures and evaluation techniques is provided. Furthermore, some examples of staff observations of the interaction between children and materials during the evaluation experience are given.



### STEPS IN FIELD-TEST EVALUATION OF AUDITORY LEARNING MATERIAL

by

### NANCY CARLSON CINDY LAFKAS

During the year, the Great Lakes Region SEIMC will be concerned with evaluating various auditory learning materials. Preparatory to any actual field-test evaluation, a preliminary classification system is being designed and formatively evaluated. This classification system will assist in organizing information necessary to evaluation.

At this point, the steps in the actual field-test evaluation appear to be as follows:

STEP 1: IDENTIFY SAMPLE(S) AND PRELIMINARY FIELD-TEST SITES.

To contro! for any large visual component invalidating the data, the logical first choice of subjects seemed to be visually impaired children, presently attending the Michigan School for the Blind. From these children, we would prefer to select 1) those who have a functioning auditory channel, and 2) those who would give us a range of stages (see attached Learner Classification System).

STEP 2: BASED ON KNOWN OR ASSUMED CHARACTERISTICS OF THIS SAMPLE, THE SEIMC STAFF WILL SELECT SOME MATERIALS TO BE FIELD-TESTED. OUR INTENTION IS TO SELECT AT LEAST 6 COMMERCIALLY AVAILABLE MATERIALS (TWO PER LEARNER STAGE).

The criteria for selection of material(s) at the first field-test are:

- a. auditory information input only
- b. capability of having pre/post test constructed for content learning
- c. material with which the evaluators are comfortable

### STEP 3: MEET WITH ADMINISTRATORS AND/OR TEACHERS AT FIELD-TEST SITE:

- A. Those teachers interested and who have children meeting the specifications will be offered a choice. The choices mentioned below are not mutually exclusive:
  - The field-test evaluators will bring in the material(s) that the teacher selects from the proposed list presented by the SEIMC

and/or

2. The field-test evaluators will conduct an evaluation of materials the teacher is presently using.

This second option should have high pay-off to both the teacher(s) and the IMC, since both are interested in assessing learning. Each field-test site may have a primary interest in a specific material, and we would like to effectively utilize that interest.



- B. It is expected that with minimal time invested, the teachers and administrators at each field-test site and the SEIMC staff will be able to reach agreement upon:
  - 1. The number of children it will be possible to involve and exactly which children specifically.
  - 2. The approximate amount of time necessary for interaction with each child and the approximate total amount of time at the field-test site.
  - 3. The procedural decisions; for example, testing done in or out of the classroom, when the field-test evaluators can come to characteristics.
  - 4. The equipment necessary--i.e., does the SEIMC supply the equipment for the use of the auditory learning material or is it available on-site?

NOTE: During the preliminary stages of field-testing, the SEIMC will be concerned not only with the degree of learning from each specific auditory learning material, but also with procedural questions. In order to develop and refine these procedures we have chosen not to involve teachers specifically during the preliminary stages. We do expect to ask for cooperative planning and evaluation from teachers at a later time, but only to the extent that they wish to do so.

### STEP 4: CONSTRUCT PRE/POST MEASURES OF CONTENT LEARNING

Once specific auditory learning materials and children have been chosen, a pre/post measure of learning will be constructed at the SEIMC. Prerequisite skills of the particular learners will be considered along with the content information contained in the auditory learning material.

Many commercially available materials have stated objectives. In this case, a pre/post measure may provide an indication of whether or not the objectives have been met. In other cases the evaluator's preliminary judgments about content will provide the initial framework to construct a pre/post measure. In the preliminary stages, the pre and post measures will be administered by a pre-recorded cassette tape with learner response to be verbal.

### STEP 5: COLLECT BASELINE MFASURES ON SELECTED SUBJECTS

In order to provide reliable and valid feedback to the Media and Materials Development Unit and the field-test site personnel, we feel it is important, particularly in the beginning stages of the evaluation effort, to have data on how the selected children respond to auditory stimulus under "ordinary circumstances."



As data-recorders, we will be particularly interested in verbal and non-verbal expressions of interest, motivation under conditions of a presented auditory stimulus, etc., and in the child's familiarity with audio playback equipment.

Once an observation schedule has been agreed upon by the teacher and the field-test evaluators, baseline observations will be recorded on-site, with analysis to be done at the SEIMC. The field-test evaluators will make every attempt to be as unobtrusive as possible in collecting the data, while still allowing some separate time for the children to become accustomed to their presence, hopefully to reduce the Hawthorne effect. Minimal evaluator-child interaction is anticipated to maximize emphasis on material-child interaction.

### STEP 6: FIELD TEST OF SELECTED MATERIAL(S)

Particularly du. ..., the initial field-test evaluation stages, we are interested in specific patterns of behavior relating to interaction with the auditory learning material. To help us keep this data as specific and objective as possible, we will be utilizing the following procedures:

- 1) All <u>field-test sessions</u> (actual "testing") of materials will be tape-recorded. We are planning to use a Sony TC 45 with a built-in microphone. Insofar as is possible, this will be unobtrusive measurement.
- 2) One of the two field-test evaluators will record pupilmaterial interaction observations.
- 3) The other field-test evaluator will be responsible for any procedural concerns--i.e., making sure pupil is "on task," helping with equipment if necessary, answering questions, administering pre/post measures, etc.

### STEP 7: ANALYZE DATA

Data from the field test site will be analyzed at the SEIMC. In all cases information about specific children and/or teachers will be kept confidential, anonymous, with no individual data made available in the compilation of results.

The information obtained will be utilized in the following ways:

- A. To suggest modifications in:
  - 1. procedure
  - 2. material(s)
  - 3. equipment
- B. To provide written feedback to:
  - 1. the Media and Materials Development Unit
  - 2. the personnel involved at the field-test site.



NOTE: Along with this rather situationally specific report, which will be available rather soon after field-testing, the SEIMC staff expects to have a more comprehensive report available at the end of the fiscal year 1973-74. This report, plus any additional information applicable to personnel interested in working with auditory learning materials, will be given to those people who have worked cooperatively during fie 1-testing.

10/22/73



### SOME FURTHER NOTES ON ELICITING LEARNER REACTION

**BEST COPY AVAILABLE** 

by

### NANCY CARLSON

The evaluation component of the Media and Materials Development Unit is concerned with gathering data relating to learner response to auditory learning materials. Much of the information regarding content learning is being gathered in a cognitive pre/post test format. However, we are also concerned with affective (subjective) feelings about learning in a particular way. Many times this information is difficult to obtain from the learner. In trying to elicit reactions of handicapped learners in a time limited field-test situation, it might be wise to keep in mind a few suggestions.

- 1. Children functioning at a low level are usually capable of only minimal responses to evaluative questions. This may mean nodding or shaking the head, a verbal yes/no response to a direct question or a blank stare, among other things. For these children (we're describing them as Stage I learners) we've attempted to give some limited-choice, concrete options. Examples of this type of question can be found on the attached sheets under "Stage I."
- 2. Children functioning at higher levels, but who have been in school systems for awhile, have a tendency to respond to evaluative questions as they think you want them to respond. An example: Question "Johnny, how'd you like that tape?" Answer "Oh, that was good. I really liked it." Or even more direct: Question "Did you like the tape?" Answer: "Yes."

His response, of course, may be an accurate report of his feelings; however, when during the tape he has sworn under his breath, looked bored, looked at the clock and a few other things, it becomes increasingly difficult to positively correlate verbal and non-verbal behavior.

We've attempted to get around that problem by asking more indirect types of questions. If a learner liked or disliked the auditory learning material for whatever reasons. it usually becomes apparent in the responses. We have included questions of this sort under Stage IT and Stage III sections on the attached pages.

3. Children who give limited responses (one word or word phrase) in reply to a how or what question can often be encouraged to elaborate by asking them "Why?"



For example: "What could we do to make this tape better?"

A: "Shorten it"

Q: "Why?"

A: "Because it is boring during the part that talks about leaves--I already know that stuff about leaves."

Much more evaluative information was gained from asking why. You might want to make a mental note to keep "WHY" handy when eliciting learner reactions.

4. A few learners are excessively verbal. They respond very positively to your attention, however brief, and really come on strong with responses. They may, in fact, not say anything worthwhile, but just keep on talking. For these learners, you might try interrupting to clarify and summarize.

"Now let's see Johnny; I heard you say you thought the tape was 'right on' in terms of what you were interested in, and it contained some good information and you ke to listen to tapes. That's a nice analysis. Thank you for your cooperation."

The attached sheets may be used as guides to types of questions appropriate for certain learners. It is quite conceivable that a particular learner may be given a question from each level. The questions are useable, but not mutually exhaustive. If you try other questions, we'd like to know so we can add them to our repetoire.

11/13/73



### ELICITING LEARNER REACTION

### STAGE I

- 1. Pretend you're the teacher. Choose the next person to listen to this tape.
- 2. If you could hear this tape again, would you want to hear it faster, slower or the same? Point to one.

\_\_ faster \_\_ same slower

### STAGE II

- 1. If you could make a tape for kids, what would you want to make it about?
- 2. If you had a chance to make that tape over, what would you do differently?
- 3. Think about the kids you know in school. Who do you think should listen to this?
- 4. Pretend you're the teacher. Choose the next person to listen to this tape.
- 5. Here are 10 chips. Show me how many chips this tape is worth.
- 6. Think of some words to tell me about this tape. Think of as many as you can.
- 7. When do you want to listen to this tape again?

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Evaluato ·			
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ERIC			

### **ELICITING LEARNER REACTION**

### STAGE II

- 1. If you could make a tape for kids, what would you want to make it about?
- 2. If you had a chance to make that tape over, what would you do differently?
- 3. Think about the kids you know in school. Who do you think should listen to this?
- 4. Pretend you're the teacher. Choose the next person to listen to this tape.
- 5. Here are 10 chips. Show me how many chips this tape is worth.
- 6. Think of some words to tell me about this tape. Think of as many as you can.
- 7. When do you want to listen to this tape again?

### STAGE III

- 1. If you could make a tape for kids, what would you want to make it about?
- 2. If you had a chance to make that tape over, what would you do differently?
- 3. Think of some words to tell me about this tape. Think of as many as you can.
- 4. When do you want to listen to this tope again?

	NAC			
	Material _		·	
ERIC Full Text Provided by ERIC	Evaluator	 		
	Puni 1			

### COMMENTS ON ASSESSING AUDITORY LEARNING OR THERE'S SOMETHING ELSE BETWEEN THE EARS

by

### NANCY CARLSON

In the process of evaluating auditory learning materials with children, we have become aware of some interesting aspects. The comments that follow are general comments and do not relate to any one specific material. The comments fall into three rather broad categories:

- 1) The behavior of children when listening
- 2) The structure of he material to be presented in the auditory experience
- 3) The discussion fol. ing the auditory experience

### BEHAVIOR OF CHILDREN

1. Observable behavior by itself does not indicate whether or not a child is listening.

We observed children who were over and under the table, constantly fiddling with equipment, playing with toys they brought, etc. These quite active children, nevertheless, <u>listened</u>, as evidenced by the responses to post test questions.

We also observed children who sat very quietly, stared at the tape recorder throughout, did not move a muscle, etc. Some of these children, although "perfectly behaved", did not learn one thing from the experience.

The key to evaluating behavior. as it relates to auditory learning, can be found in the baseline performance, or in observations of how the child normally performs. In other words, if he's normally all over the room, chances are he'll do that even if exposed to the most exciting and interesting material that can be found.

2. It seems important that the child have some responsibility for controlling the auditory learning experience.

In some cases, the children we worked with were quite happy putting in and taking out the tape. Other children wanted to start and stop the equipment when they felt it was appropriate. In almost all cases, this responsibility for control led to more involvement in the learning process.

3. If the material is new, children will not recall all information given in only one listening experience.

In available auditory learning materials, the information may contain new concepts, vocabulary, etc. After one listening experience, it is literally impossible for a child to extract selectively that which he is expected to remember. Often the children we worked with requested, in one way or another, to listen to the material again.



4. The auditory experience alone is seldom sufficient to hold a sighted child's interest.

A sighted child seems to need some more visual focus of attention. The focused alternate channel, whether it is visual only or visual-kinesthetic, seems to screen out extraneous factors, so the child can better concentrate on auditory learning.

For example, children, when given a card with a picture of a bird on it, were better able to answer questions about birds than those who didn't have a picture. With those materials that did not have such a focus, we found that a child's eyes often wondered, and this sometimes seemed to precipitate attention wondering.

Children who have a mental age under seven find it the most difficult to attend only to auditory material. Older children could sit still and focus occasionally, but by no means totally.

### STRUCTURE OF MATERIAL

5. Material that is meaningful for the child is most apt to be listened to.

We found a lot of auditory learning material which no doubt is meaningful to a teacher. However, much of this material was not of interest to the child (and hence not as apt to be listened to). Information that was of interest to the child, presented in varying formats seemed to be the key here.

6. Children need to know the objectives of the auditory learning experience.

In some way, a child needs to have made clear what he/she should listen for and why. We tried to organize the auditory experience by providing some sort of advance organizer, either in the form of a pretest or by telling the children what we wanted them to listen to. The more we worked, the more we found that the children were really happy to work with us because they were aware of why we wanted them to participate in the auditory learning experience.

7. Those material: which provide for interaction are more likely to be attended to.

The type of interaction varied; sometimes it was something manipulative the child had to do, sometimes it was answering questions, or repeating something, or doing something else the tape said to do. The opportunity for interaction seems to make the child feel that he is indeed a valuable human being and not just a passive receptacle.

Interestingly enough, (in most cases), it didn't seem to matter as much if the child wasn't extremely competent at the task. There was still sufficient motivation to try it.

### DISCUSSION FOLLOWING

All auditory experiences that the children were involved in were followed by a discussion. The discussion allowed evaluators and teachers the opportunity to further examine learning and to elicit the children's opinion of the material.



It is omed important to the equal to the children's responses.

The open questions allowed us to learn mc e about how children thought and reacted at various levels. Each child seemed to learn different things, probably based on his or her own experiential background. Through examining responses of many children, we were better able to make comments and predictions about the materials.

It seemed important to allow children sufficient time to respond.

Organizing an auditory experience for discussion purposes seems a more difficult task than we had anticipated. Often allowing a little extra time for verbal or non-verbal responses was helpful to the children.

10. The children occured to appreciate the opportunity to rate the material.

Given a good relationship, the children were responsive to the chance to actually decide for themselves how they felt about that material. Following the rating, our evaluators and teachers asked "Why?" The answers to why children rated tapes in certain ways were indeed interesting, and again gave us insight about materials (and children!!)



9.

Stage: Date: ILLE ILS! L.P. URIII. IU .. Pupil Name: Diagnosis: School: students Equipment Used for the Experiment: Additional pertinent information: Type of room: (size, comfort) Ambient noise comment: DESCRIBE SETTING: observers Material: Observer: Time:

## EVENTS OCCURRING:

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Clinical Impressions				1			
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\*V = material interaction behavior

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\*V= material interaction behavior

### OBSERVATIONS OF AUDITORY LEARNING EXPERIENCES

by

### WILLIAM ANDERSON

The following are personal observations of field-test experiences of auditory learning materials with different populations of children. Observations are not material specific; rather, they relate in a general sense to all auditory learning materials used by the author.

1. Those materials including a pre-test appeared to be more successful with the children than those without a pre-test.

The pretest appeared to serve as an "advanced organizer" for the children in listening to the material. Many of the children made either verbal or non-verbal responses when pretest material was encountered during the auditory experience. Children also appeared to perform better on the posttest when given a pretest.

2. Those materials presenting a great deal of cognitive information at the very beginning of the auditory experience did not appear to be successful with children.

Based upon personal observations, it appeared children needed a short (but varying) period of time to become accustom to the field test environment, procedure and observer. During this time it appeared more attention was given to the new surroundings than to the auditory experience. It may be well to design materials with this factor in mind; allowing the child to "ease into" the auditory learning experience.

3. Those materials requiring active participation on the part of the child appeared to be more successful than those materials where the child could passively listen.

When the auditory experience included a set of cards, required a response, etc., it appeared the child attended better and performed better on the post-test than when a material used a continuous one-way mode of presentation. The interactive approach may have the value of guiding the learner toward the desired responses.

4. When the child has the skills necessary to successfully complete the pretest for the auditory experience, allowing the child to listen to the material may produce counter-productive results.

In a few instances where the child could answer pretest questions and then requested to listen to the material, the material appeared to interfere with previous learning. The child actually scored lower on the post-test than on the pretest. Some consideration should be given to the child's successful completion of the pretest.



5. The length of the auditory learning material may be correlated to the child's performance.

While there are many other factors involved (such as content, method of presentation, etc.) those auditory materials that were comparatively longer (25-30 minutes), did not appear to be as successful with children as shorter materials. The child's performance on the post-test appeared to be lower perhaps attributable to "forgetting." Perhaps the task then becomes to design materials that will ease the learner into the learning situation, allow adequate participation activities, but not force the learner's attention over a long period of time.



### OBSERVATIONS OF AUDITORY LEARNING EXPERIENCES

by

### CINDY LAFKAS

The following are general impressions gained from personal observations of auditory learning material field tests.

1. "Those materials which present a great deal of cognitive information appear to be more successful when accompanied by some type of "advance organizer."

It appears to be difficult for even advantaged auditory learners to listen to a presentation without a purpose for listening. The listener seems to benefit from some direction early in the experience which focuses his listening for a specific purpose or purposes.

2. Specific cognitive details seem difficult to retrieve when presented within a large body of auditory information.

Post-tests which called for fill-in-the-blank, auditory cloze procedures, or a closed response of any type seemed to be difficult. Some type of auditory attender, similar to visual underlining, may be helpful (repetition, pauses for processing, auditory signals for attending).

3. Learning seems to be increased when the child has some active part in the experience.

Those materials which provided some interaction (pauses for verbal responses, visual or tactile component which accompanied auditory stimulus, etc.) seemed to be more effective in terms of the child's interest and learning. It also seemed that those materials which were interactive throughout the experience rather than just at beginning or end (pre-test/post-test material) were more effective.

4. The media selected for transmitting information may interfere with message.

While any novelty experience may be expected to interfere with learning, it seems that with some machines, the novelty remains over time more important than message.

5. Children "listen" in very different ways.

Behavioral observations provide data that show children may engage in many activities which may appear to be distracting



but are in fact "auding" (based on results of post-tests). At other times children who appear to be auding are "tuned out."

6. Interest and personal meaningfulness affects the learning in auditory experience.

Material-student match is as important in this educational experience as in any other.

7. General principles of learning seem to apply to auditorily-presented materials.

Please see Nancy for indoctrination! These are <u>imperative</u> in planning any learning experience!

April, 1974



### OBSERVATIONS OF AUDITORY LEARNING EXPERIENCES

by

### MARSHA SMITH

The following observations may not be entirely materials oriented since separating the material from the child becomes an impossible task. However, an attempt has been made to pick out what I have felt to be important factors in observing the use of auditory materials—even though similiar thoughts may have been expressed by other staff members.

1. A "listening behavior" is difficult to define or observe since it apparently varies ignificantly from subject to subject.

Briefly, this refers to the fact that "all eyes front and hands folded" may not be the "listening" position for all children. Observation forms indicate any number of extraneous movements may be made without significantly limiting auditory recall.

 A visual to accompany the auditory presentation may actually be generally more helpful in attention holding than it is distracting.

It seems through observing, that the children with vision attend better and have more recall if the visual is presented along with the auditory stimulus. Since children with vision are used to visually attending to something, this extra stimuli cuts down on the meaningless visual wandering around the room.

3. A totally objective appraisal of auditory learning materials is nearly impossible.

This has been a point of distress from the beginning. There seem to be so many variables that we have not or cannot control. Because of this, to date, I feel that our observation, general impressions and the like are little more than subjective thoughts on materials used—I wonder how our opinions would differ significantly from those of a classroom teacher who used the materials in her classroom. Please don't misinterpret these thoughts as pessimistic but think of them more appropriately as realistic.

4. It seems as though most auditory learning materials are of more use when heard a number of times as dictated by the Subject (instructional level and motivational interest) than on a one time only basis.



Many materials field tested although matched fairly well to the child, often seemed frustrating when presented with little or no introduction of the subject matter (necessary when supplemental), vocabulary, etc. In most cases, from the old teacher's point of view, the materials were not used as they would be in a classroom setting.

5. It is important to provide feedback and material/child interaction.

A pre-test, though not content dependent, or stated objectives seem to be helpful in quiding the Subject's listening. The observations indicated that children responded well to being given the answers to questions, as on post-tests--other children indicated that they liked being given clues as to important factors to listen for. It might be interesting to consider adding some kind of taped introduction to the subject matter presented on the tape prior to the "story" or whatever.

6. The child/material match is of great 'mportance in making the most efficient use of both the child's time and energy and the material itself.

This may be closely related to the comments included in #4 above. Many times, due to the time limitations and availability of subjects, it was necessary to give a child a material for which he may have been appropriately matched but not totally prepared for. Again, the problem of introducing a material or using it several times seems to be very important.

7. Giving the child time in which to respond (or pacing) to the material is important.

With the use of the button box or the stopping of the tape recorder to allow the Subject ample time to answer the questions or complete a sentence or just to comment seemed to cut down on visible frustrations and to encourage more appropriate verbalizing.

8. As indicated by the materials survey, 80% of the Auditory Learning Materials are supplementary. Therefore, the children need, deserve and appreciate some form of follow-through (discussion, worksheet, etc.).

This again may seem redundant or an extension of numbers 4 and 6 above. However, it does point out the difference between preparation for the auditory experience and



following it through. Here again, such activities appear more appropriate in the classroom than in the field test situation. This would, I think, provide more accurate appraisal of what has actually been learned.

Although these points are of concern and interest to me, I realize that in some respects they seem to confuse the issue--especially where field testing is concerned. Perhaps it just points out the subjectivity I feel we are experiencing.

4/2/74





213 Erickson Hall Michigan State University East Lansing, MI 48824

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Coordinator: Ted Ward

### CONSORTIUM

### ON AUDITORY LEARNING MATERIALS

### FOR THE HANDICAPPED



The work presented herein was performed pursuant to a Grant from the U.S. Office of Education, Department of Health, Education and Welfare. However, the opinions expressed herein do not necessarily reflect the position or policy of the U.S. Office of Education, and no official endorsement by the U.S. Office of Education should be inferred.



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### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Coordinator: Ted Ward

515-353-7836

### REPORT

### INTRODUCTION

Auditory learning -- the development of instructional materials for effectively utilizing the auditory channel as a mode of instructional input--is a topical focus worthy of a Consortium and demanding of the sort of multi-lateral resources promised by a Consortium. At the 1973 IMC/RMC Network Planning Meeting in Dallas, the concept of a Network Consortium for the development of instructional resources utilizing auditory learning was presented. The concept proposed was that of a unified effort of cooperating in the identification, examination, evaluation, modification, and development of materials (in keeping with federal Workscope) that would have use by that portion of the handicapped population that can best benefit from materials that provide learners input through the auditory channel. The effort was perceived as paralleling the national effort of Regional Media Centers for the Deaf and their concern in the area of materials for learners who use a visual mode of information reception. Further, the Consortium would build upon existing operating units that have already established themselves in the area of instructional resource development. Such a move would capitalize on these unit's unique abilites rather than attempting to create a new development unit with its ensuing "tooling up" period. The Consortium would also draw on the diverse strengths of the member units to build a viable development group which necessitates many different types of functions and expertise (i.e., instructional design, formating, field testing, prototype development, curricular design, etc.).

Ten members of the IMC/RMC Network pledged support to the Consortium at the Dallas meeting. The Consortium operated internally to the Network and interlocked with the National Center for Educational Media and Materials for the Handicapped.

The Consortium activities evolved about seven separate strategies that were designed to create a system that (1) focused attention on the development of learning materials that use an auditory delivery mode, and (2) modeled and tested procedures for the development of consortia within the IMC/RMC Network.





### SECTION ONE

### MEMBER UNIT ACTIVITIES

Auditory instruction includes a number of instructional strategies which relate to the learning potentialities and needs of many kinds of handicapped children. It is a large topic area which requires a wide variety of development and evaluation expertise—not typically available at any one network unit. The several units within the IMC/RMC Network whose workscopes included some focus in the area of auditory learning composed the nucleus of the Consortium.

Each member unit agreed to work autonomously toward its stated unit objectives and to contribute on a cooperative basis toward the fulfillment of the Consortium's objectives. On the following pages are summaries of the stated objectives of each member unit in the Consortium on Auditory Learning Materials for the Handicapped.

# al here

### Illinois Special Education Instructional Materials Center

Office of Superintendent of Public Instruction 1020 S. Spring St. Springfield, Illinois 62706 (217) 525-6601

## Leader

- Jacqueline Crane Jean Preston (Teacher-ideas are being collected)
- Jacqueline Crain
   Nick Xamis
   (Media workshops have been held as scheduled)
  - Margaret Niederer
     William Lohman
     (Project dropped)
- 4. Jacqueline Crain James Meeks

### Goals

- .. To act as a clearinghouse and broadcasting system for teacher-developed ideas and materials for education of exceptional children.
- 2. To improve classroom instruction for handleapped children by conducting media workshops for 20% of those special education instructors by 1974.
- 3. To provide by 1978: 75% of all handicapped children to receive an equal opportunity through the provision of systems and resources so that instructional and learning material, practices and services are available to all persons involved in the education of handicapped youth.
- 4. To expand and improve programs concerning the educational needs of the visually impared becausate least 55% of the teachers or educators of these programs and including at least one representativation each special education district or joint agreement program will become femiliar with new developments in the field, special curriculum, techniques, processes and materials for daily living skills.
- 5a. By 1977, to have materials appropriate to the needs of handicapped children because 70% of the special education personnel will be aware of the system and its services and 60% of those aware of the system system will receive specific utilization instructions. They will also have a thesaurus available to them within two weeks if they desire.

(project is on going)

Jacqueline Crain

ς.

b, By 1974, to have 20% of those aware of the system utilize the services once or more. Those requesting service will receive a response within two weeks from the date the request is received.

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5



### Illinois Special Education Instructional Materials Center

continued - page 2

### eader

- Jacqueline Crain (Workshops for teachers of the deaf have been held)
- . Margaret Wiederer Jerry Baginski
- 8. Jacqueline Crain (ongoing)
- 9, Margaret Niederer William Lohman (ongoing)
- 10. Jacqueline Crain Cheri Hammann (ongoing)
- Jacqueline Crain Margaret Niederer (ongoing)

- 6, By 1975, to improve classroom instruction for handicapped children by having 50% of special education instructors who have completed the media workshops utilize this knowledge and ability in their classroom.
- . To make those responsible for purchasing instructional materials for exceptional children more aware of the many factors involved in the appraisal of instructional materials.
- 8, To conduct a series of training programs to training retrain the Department Staff in order to improve instruction of children by familiarizing state staff with materials, techniques, and teaching processes; develop advocates for IMC services; and in some areas, train the various staff as teacher trainers in selected areas.
- 9. To update the materials inventory file to include 90% of all materials in the IMC collection. The file includes short-term loan items for patrons interested in the education of exceptional children, and long-term items for educators responsible for programs for the visually handicapped.
- 10. To make available information regarding processes and products in Special Education to Illinois educators and others interested in the education of exceptional children by phone, mail, face-to-face contact, and dissemination.
- 11. By 1974, (to the limit of the financial and staff capabilities) the IMC will provide information concerning their requests to 95% of the patrons within two weeks and will provide requested materials within three weeks to 25% of the patrons.

# A LEGICAL TO THE LEGI

Illinois Special Education Instructional Materials Center

continued - page 3

## Leader

- Lori Mick
  Margaret Niederer
  (Field testing just begun,
  a list of materials has not
  been compiled)
- 13. Bobbie Cheaney
  Margaret Niederer
  (ongoing)
- 14. Nick Xamis
   Margaret Niederer
   (ongoing)
  - 15. (Project dropped)

and other RSEIMC's. Field testing of materials will occur at three to ten sites.

To compile a list of materials for the instruction

12.

Goals

of severely, profoundly, and multiply handicapped.

It will be duplicated and distributed to teachers of severely, profoundly, and multiply handlcapped

- 13. To provide basic educational materials (braille, large type, recordings, and tangible aids) for visually handicapped students in educational programs, beginning with age three and including adults, when enrolled in an educational program.
- 14. By 1974, to develop at least four pilot prototypes of preschool handicapped child-use materials.

7

- 15. To develop a survey kit for task-oriented educational programs utilizing commercially available materials for children as well as teachers along with a film outilining past applications of these theories in all aspects of education for handicapped children.
- 16. To develop a model and packet of materials on daily living skills for elementary visually impaired children in special education classes.
- 17. To analyze the needs to the visually impaired as they relate to listening skills and create new materials to meet these needs.

Crist meetings were held in Margaret Niederer

Margaret Niederer

16.

Gail Lieberman

James Meeks

October. Work assigned)

(First meeting was held

Bobbie Cheaney

17.

October. Work assigned)

(First meeting held in

Margaret Niederer

Louise Giesecke

18. To identify employment possibilities for the deaf and to locate and evaluate potential sources of relevant career awareness and prevocational materials.

### Illinois Special Education Instructional Materials Center

continued - page 4

## Leader

- 19. Margaret Niederer
  Lori Mick
   (Contract has been let.
   Script has been written)
- Charmaine Young
   Margaret Niederer
   (Kit is in process)
- 21. Tom Meredith Jacqueline Crain (Workshop to be held March 29-30, in Chicago)

- 19. To develop and produce two 16 m.m. color films to teach how to utilize specific instructional materials with each of four or more specific diagnoses of young children three to five years of age.
- 20. To develop an on-the-job kit containing simple, specific tasks and practical activities, plus materials for the developmental areas of learning for young handicapped children.
- 21. To hold a workshop to fit the needs of practitiones. in the area of orthopedically handicapped children.

# Peric Peric Peric Period Perio

### Southwest Regional Media Center for the Deaf

New Mexico State University College of Education

Box 3AA

Las Cruces, New Mexico

(505) 646-1017

## eader

### Goals

- Priority areas for the search shall be auditory career education, basic mathmatics concepts and training, language and vocabulary development, To conduct a search for child-use materials. total communication.
- To modify or adapt avialable, effective, validated instructional materials so they can be used by hearing impaired students.
- testing materials for the hearing impaired. To develop plans and procedures for field . .
- To field test available child-use materials with hearing impaired children.
- To cooperate in identifying field test guidelinus with NCEMEN.
- para-professionals, parents, training institutions of equipment and integration of media in planning related training materials for use by teachers, evaluation, production of materials, operation To conduct a search for educational technology and intra-state agencies. Priority areas for the search shall be utilization, selection, instructions, 9
- To pilot test training packages developed during FY 1973.
- hearing teachers of the hearing impaired aid in the operation and maintenance of group amplifiequipment which will help provide both deaf and To design and develop a package demonstrating cation equipment, individual audio trainers, maximizing auditory input to their students. personal hearing aids and auditory training æ

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Southwest Regional Media Center for the Deaf

continued - page 2

- . To field test media and educational technology training materials designed for instructors of the hearing impaired.
- 10. To participate in the Network Information System Task Force Subcommittee on evaluation.
- 11. To coordinate with regional IMC's in response to state requests for RMC services related to special media and materials within limitations of budget and workscope elements.
- 12. To continue the advisory council for administrative consultation.
- 13. To conduct long-range planning for program develop ment consistent with BEH objectives.
- 14. To perform overall project monitoring, appraisal and reporting including submission of necessary reports (includes development of measurable strategy objectives, task analysis and charting as well as development of specific evaluative procedures).
- 15. To provide the staff with the opportunity to acquire new skills and update old skills relevant to effective and efficient Center operation.

University of Wisconsin 2605 Marsh Lane Madison, Wisconsin 53706 (608) 263-5860

- I. Instructional materials for the severely retarded will be identified, classified and filed. On request, special educators can be referred to sources of such materials.
- Evaluation information on the above materials
  vill be sought, and where available, included
  vith the file information on the product for
  report to the special educator.
- 3. SEIMC/UW special educators will receive information or be referred to information on instructional resources for children with auditory learning and visual learning problems through the auspices of a consortium with which SEIMC/UW is associated.
  - 4. Possibly, a national center on instructional resources for the retarded will be available to special educators generally. SEIMC/UW will explore the parameters of the problem and its capacity to take leadership.
- 5. A pool of media-training material, or reference to the same will be available to SEIMC/UW special educators as a result of our attempt to locate such material in preparation for discerning the needs for new products in this field.
- 6. From three to ten media-training products will be available for special educators. These will be developed over the coming year and have their prototypes in similar materials developed in FY 1973 to accompany a course for special educators on the Design and Assessment of Instructional Materials.

## Leader

### Goals

- Special Education Instructional Materials Center
- continued page 2

- generally, will be located, classified, and made available for reference to special educators. In addition, the extant collection of such materials will be maintained and kept available for client use.
- 8. Evaluation, essentially formative and/or classificatory, will continue to be preformed on inprocessed instructional materials. These data are and will continue to be available to special educators on request.
- 9. Search/retrieval services will continue to be available to special educators in all areas of extant SEIMC/UW collection of materials and/or in research areas via CEC/ERIC.

12

- 10. Standardized and evaluated procedures for evaluation will be part of an evaluation manual produced by the Network Evaluation Committee chaired by Dr. Armstrong, SEIMC/UW. Though this is not a direct service to a primary client, it is clearly a step that is required before uniform, quality evaluation data can be made available nationally through the Network.
- in the production of National information systems for the Network in the coming year. Adoption of a recommended procedures manual would be a clear benefit to primary Network clients through increasing coverage and lowering unit cost of information bits used in referral, search, information exchanges, and so on.

Special Education Instruc-tional Materials Center

continued - page 3

- materials will be maintained through replacement The extant collection of teacher and child-use acquisitions. 12.
- The above collection will be continuously available for use by child- or teacher-client. This entains usage record, and account for fines or replacement the need to in-process materials, thip materials. check in returns, repair materials, maintain a charges. 13.
- 13 above, will not only avoid duplication of efforts, Members of the SEIMC/UW staff will participate in the planning and development of a National system The effect on the target client, though indirect, instructional materials to all special educators. is most important. Uniform national procedures for doing all the tasks described in 12 and 13, (uniform or compatible between Network units). but increase the choice and accessibility of 14.
- SEIMC/UW staff will participate in state planning levels of child and teacher service through local in Wisconsin to the end of developing increased 15.
- A field study will be done to demonstrate the effect on the learner of ASEIMCs. Three Wisconsin community ties (no ASEIMC, new ASEIMC and established ASEIMC) special classes selected at random in these areas. will be contrasted via yearly gain scores of 16.
- Publication of the Wisconsin Delivery system as an exemplary system. 17.

Special Education Instructional

Materials Center

continued - page 4

## Leader

## Goals

- 18. Maintenance of mail lists of special educators and allied personnel (computer based) and the ust of the same for addressing periodic and aperiodic publications on behalf of the state departments in Wisconsin and Minnesota.
- 19. The long term loan of instructional materials for the severely handicapped (presently known or identified through Work Area I efforts ) to ASEIMCs in Wisconsin and/or assistance in the establishment of a computer-based system of periodic assessment and remedial suggestions for reading problems.
- University of Minnesota classes for off-campus educators (University of Minnesota SEIMC). Also the long term loan of materials required to construct in-service training kits of new special education materials for use by area consultants with educators in the six state areas.

14



Rocky Mountain Regional Special Education Instructional Materials Center University of Northern Colorado Greeley, Colorado 80631 (303) 351-2681

## eader.

- To add 100 instructional programs to the anthology of Instructional Materials developed during FY 1972 and FY 1973.
- 2. To develop a collection of compressed speech tapes for the visually handicapped with emphasisduring the first year on the social science content areas.
- To identify, collect, classify and loan needed, as indicated by client requests, media training materials to clients within the region.
- 4. During the second year of this project, to produce three additional mediated teacher's guide for selected instructional materials designed to teach arithmetic skills to the educable retarded of students.
- 5. To expand, process, maintain, and lend its instructional media and materials to support the development of associate centers within the region.
- 6. To provide individualized services which relate directly to the priority requests of the states and their affiliated centers based upon negotiations completed with each of the directors of special education and/or their direct representatives.

Where	Leader		Goals
Morthwest and Regional Special Education Instructional Materials Center	1. Glen Latham, Evaluation Specialist	1.	To locate instructional materials as identified by Regional Resource Centers, state departments of education, the NCEMMH and other agencies within the service region.
University of Oregon  Bugene, Oregon 97403  (503) 686-3585	2. "	2.	To locate and subsequently modify and/or develop and field test culturally relevant thin-market materials for the NWSELMC service region.
	3. Larry Carlson, Materials Specialist-Teacher Training Materials	e,	To develop a prioritized list of teacher competen- cies in the area of media and materials usage.
		4	To develop and forward to selected colleges and universities a list of training needs of ASELMC staff members.
	5. "	٠,	To develop a syllabus and workshop manual including competency-based media and materials skills for use in pre- and in-service training.
		•	To develop an annotated list of programs and materials available within the NWSEIMC Service Region relating to media and materials.
	7. Dwight Pairbanks, Media Coordinator	7.	To develop, field test and disseminate Total Information Package #5 on teacher-made materials.
	8. Marlle Moses, Library Coordinator	<b>&amp;</b>	To acquire, classify and loan media training materials for teachers of the handicapped.
	9. Julie Martineau, Materials Specialist, Child-Use Materials	•	To prepare and circulate traveling packages of child-use materials for upgrading teachers' competencies.
	10. Larry Carlson	10.	To develop a competency-keyed index of multi-media materials for training teachers of the handicapped.

G. G	leader		Gools
Northwest and Regional Special Education Instructional Materials Center	11. Larry Carlson	11. To dis materi	To disseminate upon request information on materials for training teachers in media and materials for the handicapped.
continued - page 2	12. "	12. To loan to teacher tra collection.	To loan to other regional SEIMC/RMC upon request teacher training materials in the NWESIMC collection.
	13. Julie Martineau	13. To ide and lo and ot	To identify, acquire, classify, evaluate, describe and loan child-use materials to unserved teachers and others working with the handicapped.
	14. "	14. To ass via va	To assist teachers and others in selecting material via various search and retrieval systems.
	15. Bill Pellant, Coordinator of Regional Network Development	15. To pro Units.	To provide upon request Computer Based Resource J Units.
	16. Marlie Moses	16. To mai a sour	To maintain and share upon request with ASEIMC's a source file of materials.
	17. Bill Pellant	17. To estab Oregon, Pacific.	To establish new ASEIMC's in unserved areas of Oregon, Alaska, and the Trust Territory of the Pacific.
	18. Julie Martineau	18. To con and ev	To conduct workshops on the selection, utilization and evaluation of materials.
	19. Glen Latham	19. To ass effect	To assist ASEIMC's in the evaluation of the effectiveness of their in-service training.
	20. Julie Martineau	20. To cfr	To circulate Current Awareness Packages to ASEDAC's.

21, To disseminate a bi-monthly newsletter describing materials through state departments and ASKIMC's.

Regina O'Neil

21.

	Goals	22. To disseminate a monthly Newspack to ASEIM(s.	23. To disseminate to teachers and others working with the handicapped, brochures, flyers and registratio cards.	24. To prepare and disseminate a directory of $ASEIMC$ 's	25. To develop and dissemina:e displays and multi-medi presentations describing materials services.	26. To purchase and disseminate Videograms (from USC-IMCSE) to selected ASEIMC's.	27. To provide training to ASEIMC staff members on media, materials, and educational technology.				
ı								_		 	 -17
	Leader	22. Regina O'Neil	23. "	24. Bill Pellant	25. " "	26. " "	27. " "				
ERIC.	Where		Education Instructional Materials Center continued - page 3			•			•		

The National Center on Educational Media and Materials for the Handicapped

Ohio State University 220 West Twelfth Ave. Columbus, Ohio 43210 (614) 422-7596

- 1. To evolve operational standards for the review of proposed media development and field testing.
- 2. To operate the OPA clearance review process.
- 3. To operate a review of prototype materials.
- 4. To update the <u>Producer's Guide</u> as required by changes in law, regulations, and standards.
- 5. To supply information on commercial and non-commercial producers.
- 6. To assist BEH sponsored projects and programs with technical aspects of production and product development.
- 7. To assist projects and programs with copyright, patent, and release processes.
- 8. To develop manual retrieval systems for locating specific instruction for an objective in available commercial materials.
- 9. To provide selected media to the IMC/RMC Network.
- 10. To produce field tested media for the handicapped which has been classified by a Selection Panel as thin-warket material, i.e., not commercially viable,
- 11. To provide liaison between commercial marketing field and the NCEMBH.
- 12. To move training materials related to high priority instructional materials into distribution system.



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### The National Center on Educational Media and Materials for the Handicapped

continued - page 2

- To maintain a depository of all network produced materials. 13.
- To inform trainers and projects about needed competencies. 14.
- To complete development of self-contained multimedia teacher training. 15.
- To develop a demonstration of training packages. 16.
- To engage in long-range planning activities. 17.
- To develop design-guidance parameters for producers. 18.
- 20 To coordinate the development of a comprehensive information/delivery system design. 19.
- To inform target groups about the NCEMM activities. 20
- To receive advise and policy. 21.
- To service governmental relationships. 22.
- To structure task forces. 23.
- To report activities. 24.
- To plan future activities. 25.
- To assess NCEMEN program effects. 26.
- To provide programmatic reports.
- strategies to provide management information needs. To coordinate the development of information

continued - page 3

- 29. To coordinate the development of strategies for assessing the impact of Center programs.
- 30. To interface with the IMS Network management information system (MIS).
- 31. Implement planning procedures across Center program areas.
- 32. To coordinate program monitoring activities.
- 3. To process evaluation.
- 34. To assist program area with evaluation tasks.



# American Printing House for the Blind Instructional Materials Reference Center for Visually Handicapped Children

1839 Frankfort Ave. Louisville, Kentucky 40206

## ader

### Goals

- To participate in teacher conferences and workshop and teacher training programs.
- 2. To disseminate information regarding materials through APH ex-offices trustees who are chief state school officers, heads of residential programs, and some agency directors.
- 3. To identify, evaluate and classify instructional materials for visually handicapped children.
- 4. To maintain source files of educational materials for the visually handicapped.
- 5. To produce catalogs, bibliographies, handbooks, etc. which provide source information in this area of exceptionality.

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- 6. To provide daily reference service for matching source of demand with source of supply in the area of the visually handicapped.
- 7. To support teachers in their efforts to improve utilization of low vision among visually handicapped children.
  - a) By providing an array of commercially available materials suitable for such training.
- b) By keeping the inventory of such materials up-dated and rejuvenated.
- 8. To support teachers in their efforts to discover the usefullness of non-prescriptive lenses for certain low visioned children.
  - a) By providing an array of such devices on loan for a period of time according to their particular needs.

Reference Center for Visually American Printing House for Instiuctional Materials **Handicapped Children** the Blind

continued - page 2

devices needed by the children involved. By providing a list of sources for **~** 

Goals

- utilization of low vision among visually handi-To support teachers in their efforts to improve capped children. 6
- By providing an array of commercially available materials suitable for such training.
- By keeping the inventory of such materials up-dated and rejuvenated. **@**
- To support teachers in their efforts to discover the usefullness of non-presceiptive lenses for certain low visioned children. 10.
  - By providing an array of such devices on loan for a period of time according to their particular needs.
- By providing a list of sources for devices needed by the children involved. **全**
- To d'..over, develop, and evaluate materials for teaching basic science concepts to young blind students. 11.
- To evaluate the ability of young blind students to identify and manipulate component parts of a set of simple machines. B
- young blind students with focus on discovery, To develop instructional aids and materials for teaching basic science concepts to evaluation, and dissemination of such materials by: **6**
- continuing search of connercially available science materials
  - continuing search of teacherdeveloped science materials

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### American Printing House for the Blind Instructional Materials Reference Center for Visually Handicapped Children

continued - page 3

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- 12. To develop materials for introducing basic georgraphical concepts and fundamental map reading skills to visually handicapped students.
  - a) To give visually handicapped children direct experience in learning basic geographical concepts related to their environment.
- 1) to develop a sit of lesson guides based on geographical experiences in which the child will gain knowledge of geographical features in his own environment
- 2) to help visually handicapped children use this knowledge in learning skills of map and globe reading.
- 3) to help visually handicapped childreng use this knowledge in other areas.
  - b) To develop educational materials for teaching young blind students that real objects in a known environment (classroom) can be represented abstractly by:
    - 1) orientation to the classroom
      - 2) mobility in the classroom
        - 3) use of symbols on maps
- c) To develop materials for introducing fundamental map reading concepts to visually hand capped students.
  - develop an auditory program to teach visually handicapped children geographical concepts.
- 1) to explore and define formats for recorded instructional presentations.
  - 2) to explore and define modes for student response
- to explore and define modes for providing feedback to students
- 4) to accumulate formative test data on instructional formats, and feedback modes so that a composite may be defined for the final year of research.

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American Printing House for the Blind
Instructional Materials
Reference Center for Visually
Handicapped Children

continued - page 4

- 13. To develop an instructional program to teach the use of the abacus to teachers of visually handicapped children.
- 14. To disseminate information describing uses of the Chang Mobility Kit.
- 15. To facilitate the teaching of basic audio linguistic skills in visually handicapped students giving special consideration to the needs of multi-handicapped and early childhood education.
  - a) Adapt two units of Educational Develop-Laboratories "Listen and Think" tape lesson series.
- b) Make a survey to identify the major preschool language development programs N in view of adapting materials for visually handicapped students.
  - c) Make a feasibility study of the development of a series of experience-relevant stories for young visually handicapped children.
    - d) Explore the feasibility of adapting the Cassette-Slide Series on "Rules for Talking to Your Child".
- To provide materials for teaching visually handicapped children to read, using braille as their medulm.
- a) To provide materials which will stimulate interest and curiosity about real things in the environment and, thus, an understanding of certain concepts encountered in reading.
  - b) To provide materials which will develop an awareness of the importance of tactual discrimination.

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Reference Center for Visually American Printing House for Instructional Materials Handicapped Children the Blind

continued - page 5

- To provide a variety of interesting and motivational activities for teaching specific reading.  $\Im$
- To provide materials which will supplement and/or replace illustrative materials in inkprint textbooks. Ŧ
- To adapt educational measures designed for normal children for use with the visually handicapped. 17.
- a) Areas to be surveyed:
- general achievement
- particularly reading and mathspecial areas of achievement, matics.
- these tests will be adapted to braille When appropriate tests are identified, and large type form. **A**

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### Great Lakes Region Instructional Materials Center

Michigan State University 48824 East Lansing, MI 213 Erickson Hall (517) 353-7810

Materials Specialist Marsha Smith

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Leader

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- Materials Specialist Mancy Carlson 'n.
- = =

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- Media Specialist David Broski 7.
- φ,
- Nancy Carlson **.**
- 10. David Broski

### Goals

- To identify a group of available materials that utilize and develop the auditory channel for effective learning. ;
- according to auditory learning characteristics. Tc classify the identified group of materials 2.
- regarding the characteristics of auditory channel To prepare a report relating information learning materials. . .
- To select four specific commercially available auditory channel learning materials that have potential use with handicapped children. 4.
- commercially available auditory channel learning To evaluate the effectiveness of four selected materials. γ.

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- these three evaluative procedures and to develop a workable plan and design for the evaluation of To prepare a report comparing the findings of auditory channel learning materials. 9
- learning materials that would be more effective To select a group of four auditory channel with handicapped children if modified. 7
- To modify four auditory channel learning materials to increase their effectiveness with handicapped children. **œ**
- To evaluate the effectiveness of four modified auditory channel learning materials. **.**
- modification and evaluation of the four selected To prepare a report of the findings of the 2

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Where	Leader		Goals
Great Lakes Region Instructional	11. S. Joseph Levine Coordinator, Development Unit	11.	To identify six formats for the design of auditury channel learning materials that will have potential with handicapped children.
continued - page 2	12. " "	12.	To develop six new auditory channel learning materials for use with handicapped children.
	13. Nancy Carlson	13.	To field test the first versions of six auditory channel learning materials for use with handicapper children.
	14. S. Joseph Levine	14.	To modify first versions of six auditory channel learning materials on field test data.
	15. Nancy Carlson	15.	To field test revised versions of six auditory channel learning materials for use with handicapped children.
	16. S. Joseph Levine	16.	To prepare a report on the use of six different formats for the design of auditory channel learning materials for handicapped children.
	17. " "	17.	To submit for distribution the six new auditory channel learning materials for handicapped childrer
	18. Marsha Smith	18.	To select a content area and specific content objectives that are appropriate to the needs of handicapped learners.
	19. S. Joseph Levine	19.	To select a format for the development of a new auditory channel learning material.
	20. David Broski	20.	To design and develop a set of pilot example content specific auditory channel learning materials.

Mhere Carlot Car			Leader		Goals
Great Lakes Region Instructional	21.	Nancy	Nancy Carlson	21.	To field rest a set of new pilot example content specific auditory channel learning materials.
continued - page 3	22.	Marsh	Marsha Smith	22.	To prepare a report on the effectiveness of a set of pilot example content specific auditory channel learning materials.
	23.	S. Jos	S. Joseph Levine	23.	To redesign a set of new pilot example content specific auditory channel learning materials.
	24.	Nancy	Mancy Carlson	24.	To field test the redesigned pilot example content specific auditory channel learning materials.
	25.	Sue Am Coordi Unit	Sue Ann Yovanovich Coordinator, Field Service Unit	25.	To provide consultative services to state departments.
	26.	Randy Gross Library Ser	Randy Gross Library Services Consultant	26.	To provide consultative services to ASEIMCs.
•	27.	2	*	27.	To support ASEIMC Personnel in the management of their programs.
	<b>28.</b>	Sue An	Sue Ann Yovanovich	28.	To assist state departments in planning, implementing, and conducting media and materials workshops.
		•		29.	To provide the state departments of special education and designated agents with up-to-date information on the availability and use of instructional technology, materials and developments.
	8.	*	2	30.	Provide state departments of special education and ASEIMCs access to computer-based resource units (CBRU) out of Buffalo, N.Y., at the Macomb County Intermediate School District, Michigan.

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Cytric			
Where	Leader		Goals
Great Lakes Region Instructional Materials Center	31. Sue Ann Yovanovich	31. 1	Provide materials dissemination to ASEIMCs through state departments of special education.
continued - page 4	32. Randy Gross	32. H	Register users of child-use and mediated twache use materials and circulate these materials to registered patrons.
	33. Sue Ann Yovanovich	33.	Provide support to state departments and ASEIME personnel in developing and improving their skills in media, materials and educational technology.
	34. "	34.	Select and acquire child-use and mediated teacheruse instructional materials in support of the state departments of special education.
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Midwest Regional Media Center for the Deaf

University of Nebraska Lincoln, Nebraska 68508 (402) 472-3171

# Leader

- successful in teaching deaf students the language system currently known as "Total Communication".
- 2. To adapt existing materials so that they may be modified as child use materials.
- 3. To produce needed materials which are not now available.
- 4. To determine the effectiveness of existing materia: adapted materials, and produced materials in the education of the deaf learner.
- 5. To focus in on the media needs of both college educators and supervising teachers that might be served effectively via mediated kits designed by the MRMCD.
- 6. To design, produce, and provide educational media kits to meet the specific media needs for a) college educators preparing teachers in education of the deaf and b) supervisory teachers in school programs for the deaf.
- 7. To draw upon existing resources to help meet the media meeds of educational programs for the hearing impaired, and to prevent duplication of materials.
- 8. To design, develop, and package "mediated kits" that will meet the identified media meeds of college educators preparing teachers of the deaf and supervising teachers of the deaf.
- 9. To develop and implement the procedures for loaning media-training materials to the target population.

## Leade

### Goals

- Midwest Regional Media Center for the Deaf
  - continued page 2

- To search, identify and disseminate information (upon request) about available media-training programs and resources.
- 12. To identify and classify those materials developed in this proposal for the hearing impaired child and other handicaps.

questions about media design and utilization

with the deaf.

To provide pertinent and quick responses to

11.

- 13. To conduct evaluative studies on MRMCD-produced learning materials to assess their effective ess and recommended usage with the hearing-impaired child.
- 14. To insure a data base entry consistent with the Network-determined format for proper inclusion of materials into the national information system.
- 15. To insure that the media program of the MRMCD is meeting the objectives of the respective state educational plans for the deaf.
- 16. To provide, free of charge, MRMCD staff for media consultant services to educators of the deaf in our region.
- 17. To provide basic media design skills and techniques to teachers in their own schools so they may participate in developing their own instructional media.

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### **SECTION TWO**

### INFORMATION ON AUDITORY I FARNING

In an attempt to provide Consortium members with a common language and to define the parameters of the Consortium's activities, a glossary of terms and a collection of definition papers were cooperatively developed by Consortium members. Dr. David Sabatino, Pennsylvania State University, initiated glossary terms with additions and deletions being supplied by other Consortium members.

Dr. S. Joseph Levine, GLRSEIMC, Michigan State University, developed the definition of "advantaged instruction" adopted by the Consortium. Member units then took the previously developed terms and parameters and drafted short definitional papers relating auditory learning to the different types of handicapped children that could benefit from auditory instruction. The glossary, definition of advantaged instruction and definitional papers are included in this section.



### GLUSSARY OF TERMS

- Advantaged Instruction instruction that focuses on those areas that are functioning at the highest levels and that takes advantage of the child's functioning ability to promote further learning; this approach bypasses those functioning aspects of the child that are low in an attempt to provide necessary information that can promote normal performance in his environment.
- Aptitude basic learner characteristics felt to be related to, or underlie academic or vocational achievement, e.g., visual and auditory perception, frequently referred to as traits or abilities, and sometimes as specific behaviors.
- Auditory Figure-ground the ability to attend to a specific sound stimulus when presented in a background of ambient auditory information, synonymous with noise listening, or background sound exposure.
- Auditory Learner a child whose preference for or measured strengths would indicate a facility for learning through the auditory modality using that type of advantaged instruction.
- Auditory Perception central information processing of neurally coded auditory sensory information; this includes initial arousal, filtering, attention for, and the actual processing (of discrimination, retention, and sequencing) of those sound elements that permit interpretation of the environment and language facilitation.
- Auditory Perceptual Discrimination the ability to differentiate among environmental sounds, phonemes and morphemes by recognizing the distinctive features among auditory received information.



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Auditory Perceptual Retention (Memory) - the ability to discriminate and then retain auditory information for short periods of time before that information is lost or used in association with a longer term memory bank containing language.

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Auditory Perceptual Sequencing - the ability to arrange and organize auditory stimuli in a temporal order.

### Auditory Reception -

- Available Instructional Materials are those instructional materials graphically reproduced to be used in both group and individual settings, including programmed reading and math, as well as supplemental materials, which can be readily procured by teachers from identifiable sources.
- Classification Information that set of information, more subjective than identification information, that provides a basis for selecting an instructional material for classroom use (purpose, group setting, educational level, etc.)
- Commercially Available Auditory Instructional Materials are those instructional materials that are available nationwide through a manufacturer or distributor and will be available for a period of years. They consist of materials that either comprise some vehicle for presenting sound (cassette, phono disc, audio flashcard, etc.) or a defined procedure for the creation of auditory experiences (suggestions for listening activities, stimulus for listening experiences, etc.)



- Commercially Available Non-Printed Materials are those teaching devices used as a supplement to the basic curriculum, i.e., teaching machine programs, instructional toys, puzzles, games, records, magnetic tapes.
- <u>Descriptors: Author's Description</u> the objectives, goals, or aims that a specified piece of identifiable instructional material is assumed to accomplish for a particular age level (chronological or mental) and type of learner or given educational setting (basic, vocational, special education).
- <u>Descriptors:</u> Characteristic Descriptors those identifiable features which permit statements on objectives for a particular piece of n-structional material. These would include input mode, response mode, level of interest, language or reading level, manipulanda, type of handicap.

### Evaluation:

- Formative Evaluation field testing of the pilot instructional materials on a limited sample of target population, following which, prototype instructional materials are developed.
- Exploratory Evaluation pre-field test exploration to determine feasibility of developing working instructional materials into pilot ready stage. A crude face validation of a given materials capabilities of meeting stated program objectives. Usually tested by using a restricted sample target population.
- <u>Pilot Evaluation</u> following exploratory evaluation, the working materials are returned to the laboratory for reconsideration and refinement, the product being a representative set of testable materials.



### Evaluation (continued):

- <u>Preliminary Evaluation</u> subjective appraisal of the pilot materials by critical reviewers known to have expertise in that field. Frequently, teachers that would use the materials should be the review audience at this stage of evaluation.
- Summative Evaluation final field test on delineated sample of target population using the prototype materials, from which the finished product will emerge and validation statements be made.
- Identification Information that set of information which is objective and is used to describe identifiable characteristics of an instructional material (price, title, author, publication date, etc.). Of primary importance for the ordering of instructional materials rather than the selection of an instructional material for classroom use.
- Instructional Maintenance to achieve arousal and to maintain attention sets, an instructional procedure more commonly used with more seriously and multiply handicapped children for focusing attention on a particular stimulus or maintaining interest or learner participation.

  This is in comparison to advantaged instruction or remedial instruction.
- Linguistics the discipline which studies and identifies the building blocks of language; a curricula approach emphasizing language, conceptual development, as opposed to teaching symbolic distinctive featureness of scunds and shapes (perceptor).
- Modality the sensori-perceptual intake systems through which information is transmitted to the cortical areas of the central nervous system. Primary learning modalities are usually visual and auditory perceptual systems, secondary learning modalities are tactile, haptic, kinesthetic avenues.



- Non-Commercially Available Auditory Instructional Materials are those instructional materials that are similar in form as those that are commercially available, but are not available from national sources, and/or may not be available for a period of years. These materials may be teacher made, project designed, or developed by an agency or foundation. They must be able to be reproduced from designs supplied by the author/producer.
- Non-Verbal Auditory Material an instructional material employed primarily through the auditory input mode, utilizing motor, verbal meaningless (nonsense), visual, tactile, haptic, or kinesthetic instructional support or stimulation.
- Primary Sensori-Perceptual Mode to mean only the auditory modality.
- Remedial Instruction\* special instruction concentrating on academic achievement when it is lower than the expected level based on measured intellectual capacity.
- Replicable Non-Commercial Materials teacher made materials that can be reproduced from the design supplied by the author/producer.
- Secondary Sensori-Perceptual Mode to mean all modalities other than auditory that can be used to support an auditory instructional experience (visual, tactile, haptic, kinesthetic).
- Teaching Techniques the case of the specific procedure technique or material presented through a replicable structure, wherein the directions for its use can be communicated to a previously unaware second party.

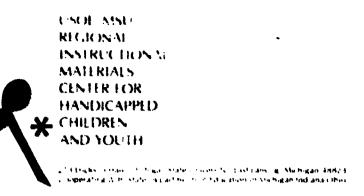
<sup>\*</sup>Heilman, A.H., Principles and Practices of Teaching Reading. Charles E. Merrill, 1972, pp. 552-553.



- Verbal Auditory Material an instructional material employed primarily through the auditory input mode utilizing meaningful verbal expression as a cuing, cluing or instructional support, or reinforcer
- <u>Visual Learner</u> a child whose preference for or measured strengths would indicate a facility for learning through the visual modality using that type of advantaged instruction.
- <u>Visual Perception</u> accurate and rapid central information processing of visually received sensory information which includes discrimination, retention, and sequencing of visual information.
- Zero Reject Retardation refers to sub-average general intellectual function which originates during the developmental period and is associated with impairment in one or more of the following: (1) learning, (2) maturation and (3) social adjustment (Heber, 1959). Severe retardation refers to an IQ range of roughly 20-35 points and a maximum mental age of 6-0. Profound retardation refers to an IQ of 20 or less points and a maximum mental age of about 3-8 (Robinson and Robinson, 1965). A very supervised life, learning of essential health habits, and a little concrete level language characterizes the severely retarded. The profoundly retarded may be bedridden, may have sustained neurological, physical and/or sensory impairments and generally require total supervision. Mental Age maximum would be from 4-0 to 6-0.



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### ADVANTAGED INSTRUCTION FOR HANDICAPPED CHILDREN

Traditionally, the training of teachers of handicapped children has evolved about three primary aspects: the understanding of the limiting features (characteristics) of particular handicaps, the procedures for assessing the effect these limitations have on the learning process, and the development of alternative approaches to instruction that compensate for the limiting features. The predominant emphasis has been on the first two-characteristics and assessment of handicapped children. A lesser emphasis has been placed upon the development of alternative instructional procedures. This has been due in large part to the lack of appropriate opportunity for teachers-intraining to actually try out procedures with handicapped children. It naturally follows that the initial experiences of new teachers are focused on the development of these alternative procedures. New teachers are continually attempting new ideas and techniques and making judgments regarding their relative effectiveness with their learners. If their preservice training has provided a firm base of understanding in characteristics and assessment, the new teacher is able to successfully develop a large repertoire of alternative approaches for use with handicapped children.

This paper is concerned with the types of instructional procedures that are typically adopted and will suggest one instructional procedure that needs further investigation and exploitation. Such a procedure is ideally suited for a focus for the development of auditory instructional materials.



There are three different instructional procedures that are most typically used with handicapped children.

REMEDIAL PROCEDURE - The remedial procedure calls for the teacher to assess the handicapped child to determine what aspects of the child are limited. Traditionally these aspects have been of a content nature, but more recently there has been greater emphasis on learning skill areas (attention span, motor functioning, visual receptive skills, etc.). The teacher, after assessing the areas that are below level, focuses the instruction on these areas and attempts to bring them up to a specified level. For the child who is having reading problems, the teacher utilizes remedial reading materials to further develop the child's reading ability. For the child who is primarily a tactual learner; the teacher stresses those activities that utilize those sensory modes other than the tactual.

For those handicapped children who have mild handicaps and a maximum potential that approaches that of a normal child, remedial procedures seem to be most appropriate. Given focused instruction that deals with their specific learning problem, the child is most apt to attain improved functioning ability.

MAINTENANCE PROCEDURE - For a low functioning handicapped child, the maintenance procedure is often used to maintain the performance of the child at a specified level. This procedure is often used in conjunction with a remedial procedure and serves to reinforce the learning and guarantee its continued existence. In the instance of a trainable child who has learned to write his name, the teacher utilizes a maintenance procedure whereby the child is provided daily opportunities to write his name. The maintenance procedure is utilized primarily when the child's level of functioning has been defined and reached. The task of the teacher is to maintain the functioning of the child at the defined level.

For those handicapped children who are considered extremely low functioning, maintenance procedures serve to reinforce and guarantee the child's operation at a defined level. The selection of the focus of the maintenance procedure for a particular child is based on that aspect of the child that is most advanced and most able to attain near-normal functioning. This selection is further guided by those aspects of performance that are most needed to function within the society.

ADVANTAGED PROCEDURE - The advantaged procedure utilizes the same basic assessment approaches as the remedial procedure, but rather than focusing the instruction on those aspects of the child that are limited, the instruction focuses on those areas that are functioning at the highest levels. The instruction takes advantage of the child's functioning ability to promote further learning. It



bypasses those functioning aspects of the child that are low in an attempt to provide necessary information that can promote normal performance in his environment. The prime example of an advantaged procedure is the instruction that is utilized with a blind child. The child has no ability to receive visual information so information is provided through auditory and tactual modes. The procedure takes advantage of the available learning channels. Similarly, the non-reading sighted adult is able to receive information through auditory channels that will permit him to function in society.

For those handicapped children who manifest physical handicaps, the advantaged procedure provides a means of inputing information that is not stifled by the handicapping condition. The advantaged procedure also has promise for instructing those learners who do not have physical handicaps yet demonstrate learning problems. For these learners the most used approach is the remedial approach. The advantaged procedure, however, can provide a viable vehicle for these learners since it utilizes available channels for the continued input of information thereby stimulating further growth.

ADVANTAGED/REMEDIAL PROCEDURE - The use of an advantaged instructional procedure with children who have mild handicaps is often disregarded in favor of a remedial procedure. It is suggested that a dual instructional procedure be exploited for use with this child since such an approach would provide for the continued input of information (through the advantaged procedure) while the lower functioning area is being developed (through the remedial procedure). Instructional materials that utilize an auditory format for delivery (tapes, records, audio flashcards, etc.) can provide a viable advantaged instructional procedure for many areas of instruction that are currently being treated in a solely remedial manner. area, the input of information through reading (visual mode) has long been a major stumbling block for many handicapped children. Rather than focus instruction solely on the use of remediation to overcome the visual problem, it is suggested that materials of an auditory nature be used to bypass the problem area for the input of information. At the same time, depending on the particular learner, a remedial approach can be implemented that focuses on the reduction of the visual problem through appropriate remediation.

THE PROBLEM IN USING AN AUDITORY ADVANTAGED PROCEDURE - To facilitate the development of a dual advantaged/remedial instructional program for handicapped children who learn best through an auditory mode, it will be necessary to systematically develop and provide information to teachers regarding appropriate instructional materials and procedures that can be used for advantaged instruction. Since the emphasis to date has been on remedial instruction, the wealth of remedial materials far surpasses the number of materials that can be successfully used for advantaged instruction. The task, then,



can be seen as a double thrust:

- a) the systematic development of information about auditory instructional materials for advantaged instruction, and
- b) the systematic development of information about the interfacing between these advantaged materials and the available remedial materials.

S. Joseph Levine July 1973



### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Coordinator: Ted Ward

515--353-7836

### AUDITORY INSTRUCTION AND HANDICAPPED CHILDREN

-- A Collection of Papers--

The following papers are designed to examine the use of auditory instruction with handicapped children. Auditory instructional materials, as an advantaged form of instruction, have been used with blind and visually handicapped learners for quite some time. The uses with other handicapped learners, however, has not been exploited to any great extent. It is the purpose of these papers to stimulate interest and ideas regarding the potential for auditory instruction with many types of handicapped learners. Though the thoughts and ideas presented are primarily suggestive at this stage, it is hoped that an increased focus on this form of instruction will yield more information to further understand the topic of auditory instructional materials.





### ADVANTAGES OF AUDITORY LEARNING MATERIALS

### FOR THE PHYSICALLY HANDICAPPED

The population of physically handicapped, excluding visually impaired and hearing impaired, consists primarily of crippled and otherwise health impaired. Many of these children seen in public school programs have muscular dystrophy, spina bifida and various types of cerebral palsy. For them, the process of absorbing information by reading is often cumbersome and tiring.

A growing subset of this population is emerging and is currently classified as multiply handicapped. These children, in addition to being physically handicapped, may also be developmentally retarded, show evidences of being emotionally disturbed and/or have severe learning problems.

If we are to consider the cognitive and affective advantages of auditory learning materials for this second and more handicapped population, then we begin to overlap with the advantages afforded the other populations (i.e. learning disabled, mentally retarded, etc.) which are referred to elsewhere.

Most of the remaining distinct advantages of auditory learning materials for the physically handicapped fall into the psychomotor domain. These advantages appear to be:

- An instructional cassette is lighter in weight than a book. For a physically handicapped child with little upper extremity muscle strength, this is an advantage.
- 2) It requires less fine motor skill to push a button on a tape recorder than it does to turn the pages of a book.
- 3) Instructional feedback is more easily given through the auditory channel, and is more consistent with day to day living experiences.
- A larger body of information can be made available before a manipulative attempt must be employed; i.e. a child can hear more from a tape before he has to push a button than he would see before he would have to turn a page.



- for adapting and modifying materials and equipment to specifically fit the physically handicapped learner's needs. (i.e. planned spacing, compressed speech, cued listening, etc.)
- 6) For the child with limited visual attention because of fatigue factors, (a concomitant physical problem with this population in many instances) listening (rather than reading) for information gain preserves remaining eyesight.

Nancy Carlson December 7, 1973



### AUDITORY INSTRUCTION FOR THE DEAF

Although the education of deaf students involves considerable amounts of visual input, the deprived sense (hearing) must be developed to its fullest potential. The development of listening skills is as important for the deaf student as it is for his hearing peer. Selected records, audiotapes, audiocards, and other auditory stimuli, such as group aids, are essential to the full development of the individual's learning capacity.

Auditory material for hearing impaired might be used for (at least) 1. Training in basic auditory--perceptual and integrative skills; 2. Practice in comprehension of spoken language; 3. Practice in association of spoken language with speechreading and reading of printed words; 4. Modeling of stress, rate, and other characteristics of spoken language, and 5. Information transfer.

The deaf student must use all the residual hearing that he has.

Awareness of sounds for the deaf may begin with the recognition

of gross sounds and progress to a higher order of frequency

interpretation and response, such as speech recognition.

### AUDITORY LEARNING FOR THE MENTALLY RETARDED

By definition, mental retardation has no special auditory connotations. Practically, however, the prevalence of hearing problems among the retarded is higher than among those of average intelligence. This may be due to (1) an impairment which can, at one time, result in both reduced intellectual as well as hearing defect, as in cerebral palsy, (2) separate defects of hearing and intellectual function, and/or (3) an interactive effect wherein reduced hearing function adversely effects already reduced intellectual function. Such examples are more appropriate to the severely and profoundly retarded than they are to the mildly retarded and they act to make the auditory modality disadvantaged in the former.

Hearing acuity and auditory learning are not identical in retarded or non-retarded persons. Where such problems exist in the retarded, materials and methods used with the deaf and hard of hearing may be suitable if appropriately modified to account for the reduced intellectual function. Further, there are no data (known to me) which suggest that auditory learning may, in fact, not be disadvantaged in some retarded persons regardless of severity of retardation.

In the mildly retarded, familial factors related to socio-economic level, health practices, or education, are probably more instrumental in creating auditory disadvantagement than any identifiable physical or neurological defects. This suggests that environmental manipulation may well be employed in discovering the advantaged receptive mode and in exploiting it. The research literature suggests that auditory learning has been successful, in various attempts, with the mildly retarded, at least short term.

### AUDITORY LEARNING AND THE EMOTIONALLY DISTURBED AND AFFECTIVELY HANDICAPPED

by

### Jacqueline Crain

Auditory learning presumes many things: an intact auditory system which can receive, recognize, and retrieve auditory experiences; opportunities for and exposure to auditory stimuli; an organism motivated and curious about its surroundings; an adequate self-concept. The child who finds his ego or self-concept threatened by experiences which he cannot comprehend or accept, or who is involved in personal crises, or the child who finds auditory experiences unpleasant will deny or tune out auditory stimuli.

It is difficult -- a limes impossible -- to distinguish true from hysterical or selective deafness. Even more puzzling is the child who "denies" particular sounds or words or concepts which might be incompatible with his doubt, conflicts and shaky ego-structure. We often do not know if the child is hard-of-hearing or brain-injured or having successive petit mal seizures or perceptually handicapped or emotionally involved. Diagnosis must be continuous and preferably would involve a parent or teacher who is extremely observant of the child's limb movements, behavior, pauses, eye movements, etc.

The emotionally disturbed child has difficulty at all levels of auditory learning: awareness, reception, discrimination, memory or retrieval, association, comprehension. At each of these levels or processes he is having problems with self and others, dealing with real or imaginary threats to his ego, with tuning in to a world he finds frightening. Learning involves a change in behavior. The child who cannot cope with his problems is often fearful of learning and changing; he is disinclined to be challenged or motivated, to face even more possibilities of failure and ego-shattering threats to his vulnerability.

Children will use refusal to learn to punish those whom they feel to be causing their problems, real or fanciful. In our culture, where grades and school achievement are so highly regarded, the passive-agressive child can score a signal victory over parent, teacher, and society by not learning.



### AUDITORY LEARNING AND THE EMOTIONALLY DISTURBED AND EFFECTIVELY HANDICAPPED

We can close our eyes to that which we wish to avoid or to shut out. Tuning out auditory stimuli is much more difficult. Yet the emotionally disturbed child is prone to "close his ears" to a world which is overwhelming: he therefore closes out the channel through which the world might bring him those skills, concepts and attitudes which would effect the very adjustment he needs and seeks to achieve his potential - the love relationship which underlies all other achievements in life. And self-actualization.

Working with the emotionally disturbed/affectively handicapped child generally requires talk -- talking through one's problems in nondirective therapy, life-space interviews; even behavior mod demands attending to the facilitator or instructor, listening to the target behavior, discussing the system itself. Listening is basic. However, paradoxically, one of the impervious characteristics of the disturbed child is his inability to forget. This is the child who broods, becomes paranoid, cannot forget the incidental or unimportant details; in fact, his listening and memory are colored by his poor image of self and the perseveration of unpleasant feelings about a situation. He also lacks affect; often the child demonstrates a flatness of affect or feeling. He needs to be encouraged to emote, to have feelings, to be angry, fearful, joyous.

For the disturbed child, "listening" is an investment, requiring interest, empathy, sincerity and involvement on the part of all concerned in the educational and psychological therapies of the child. Teaching is a relationship; talking and listening are the basic avenues of this relationship.



### MUSIC THERAPY AS AN AUDITORY LEARNING TASK

by

### Jacqueline Crain

Musicians have long known the value of a "good ear" and "good vibrations". Music is encapsulating; it involves the whole person. Music will reach the infant - to soothe and entertain; the retarded - to teach movement, concepts, vocabulary; the autistic - to communicate when nothing else can penetrate, the stroke victim or aphasic, whose language area may be impaired but whose musical ability is often left intact; the culturally different - who find music and rhythms to be universally appealing.

The ear, unless it is physically defective and incapable of transmitting sound, is always "on", even during sleep, even during psychotic breaks with reality. Processing of auditory stimuli is much more complex, however. The intact hearing mechanism will receive the stimuli. But recognition, association, retrieval, and comprehension are dependent upon an integrity of the nervous system that does not always exist. The brain becomes increasingly differentiated with age and experience. And certain areas of the brain seem to deal more specifically with movement, vision, language, conceptualization, feelings, etc.

The best learning is that which utilizes many channels of input of experie: e and stimuli. This allows increased patterns of communication and storage of information. Retraining or rehabilitation of the dysfunctioning learner will often need to utilize several learning pathways to evoke the retrieval of words, experiences, concepts, and movements.

For the auditorially perceptually impaired, music provides other channels for imprinting information: haptic, motor or kinesthetic, language, visual. Matching tone with tone (as on the piano), or tone with one's own voice, will increase auditory discrimination. Simple repetitive songs will help to develop memory, retrieval, vocabulary, motor patterns (which may later evoke auditory retrieval). Some children have to actually "act through" a concept or word, utilizing the movement patterns, melodies, etc., which had been taught concomitantly.



### MUSIC THERAPY AS AN AUDITORY LEARNING TASK

Recognition of simple melodies is a possible precursor to sequential memory on a non-language level. It provides a cross-cultural, no-age-barrier, multi-sensory, socially acceptable avenue. Young children "of all ages" respond to music; the effect is often affect. There is pleasure, one of the simplest, most basic emotions or feelings. And we learn that which brings us pleasure. This is the basis of all approaches to learning, be it behavior mod, operant conditioning, humanistic teaching, free school, etc.

Fringe benefits of music as therapy and instruction would be the social advantages of being "in", knowing the current songs, the music of one's heritage - church, school, country, even recent tv, radio and record hits. Ability to play a musical instrument can open many doors to companionship for the often lonely, isolated child who has had emotional problems and finds social roles difficult. Further, the coordination, integration, and organization necessary to play an instrument or join a band or musical group, no matter how primitive, has untold benefits for the disorganized, disintegrated, confused child who has had trouble "getting it all together". Even the blending of musical instruments in the playing of songs provides an opportunity to utilize figure-ground, comprehension, recognition, retrieval, etc., in a way no other activity can match as to pleasure and challenge.

There is a problem for the young and possibly the seriously disturbed in the danger of overstimulation of sound and "clutter" in current records and tv programs. Caution should be exercised if the child appears to be too "turned on" and "hyped" by music. Basically, however, there is an emotional involvement that cannot be denied any child who demonstrates interest in music. For music is the universal language.



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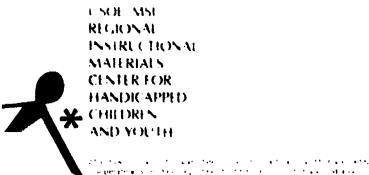
### SECTION THREE

### CONSORTIUM MEETINGS

During the project year, there were three meetings of Consortium members. The purposes of these meetings were to plan Consortium activities, create a forum for the exchange of concerns to highlight areas of need and interest for the Consortium focus, to evaluate Consortium progress, and to input information about related projects and materials.

The first meeting was held July 17-18, 1973, to develop Consorcium activities. The second meeting was held November 9, 1974, and the final meeting was held on March 7, 1974. The following pages contain minutes and other appropriate information concerning the three meetings.





May 24, 1973

### **MEMORANDUM**

TO: Network Units Collaborating In The Consortium

on Auditory Learning Materials

FROM: Lou Alonso

SUBJECT: Dates of First Consortium Meeting

At our earlier planning session in Dallas, you requested the establishment of a July meeting date for the Network Consortium on Auditory Learning Materials.

Will you, then, please reserve the dates of Tuesday, July 17 and Wednesday, July 18 for our first meeting, contingent upon approval of our Amendment Request? We will forward a copy of our Amendment Request, hotel and other arrangements and agenda shortly. The meeting city will be Chicago, to facilitate travel arrangements.

cc: John Schneider
Ken Olsen
Bill Pellant
Gloria Calovini
Carl Oldsen
Don Erickson
Paul Andereck
MSU SEIMC Staff

LA:rh



AGENDA

# THE CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE MANDICAPPED

### JULY 17 & 18

O'Hare International Tower

## Tuesday, July 17

Review of history and intent of Consortium	Review of contributions and potential contributions of each participating unit
1:00 - 3:00	3:15 - 5:00

To be determined by group action

7:00 - 9:00

Wednesday, July 18

Development of work unit plans	Sharing and integrating plans
Developme	Sharing
8:30 - 10:00	10:15 - 12:00

### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall
Michigan State University
East Lansing, Michigan 48824

Coordinator: Ted Ward

515-353-7838

### SUMMARY OF PROCEEDINGS

Chicago O'Hare International Tower July 17-18, 1973

### I. CONSCRTIUM MEMBERS PRESENT

Tuesday, July 17

Bernadette Alber - Resource teacher, Evanston Township High School, area of vision

Corinne Cloppas - Illinois IMC, area of listening skills

Dan Dolbert - Illinois subcenter, works on different projects than Illinois IMC

Bonnie Wakefield - Kentucky IMC, materials specialist

Diane Ewing - NCEMMH, Communications Officer

Alan Cotzin - NCEMMH, coordinator of subcontracts

David Sabatino - Pennsylvania RRC, auditory perception research under USOE BEH

Hugh Summers - Southwest RMCD, deaf and hard of hearing, now developing package for teacher use of auditory equipment

Carson Nolan - APHB, educational research and development

James McCarthy - Wisconsin IMC, project director, area of mental retardation

Ted Ward, Joe Levine, Nancy Carlson, Lynn Kinzel, Michigan IMC

Wednesday, July 18

Wakefield, Cloppas, Alber, Ewing, Sabatino, Cotzin, Summers, Nolan, McCarthy, Ward, Levine, Carlson, Kinzel

Gloria Calovini, Illinois IMC

Robert Stepp, Nebraska, Midwest RMCD

NOTE: No representation at these meetings from Oregon or Colorado IMCs. Bill Pellant (Oregon) was scheduled to attend.

### II. INTRODUCTORY DISCUSSION

- A. Consortium will pay for expenses of those members of the Consortium in attendance. BEH has given green light for this meeting, in advance of full funding of the Consortium.
- B. Handout "Topics, Problems and Issues for Discussion" was distributed to each member and projected on overhead. A brief reading of this material gave an overview of what should be covered at the meetings.



### III. REVIEW OF THE HISTORY AND INTENT OF THE CONSORTIUM (Point 1)

- --MSU has "both feet" in auditory learning (as coordinator of the Consortium on auditory learning materials and as the developers of auditory learning materials as stated in the FY'74 proposal.
- --Consortium's auditory learning materials will involve much more than just the visually handicapped. (See Advantaged Instruction)
- --BEH push toward child-use materials; Consortium needs inferfacing within the Network for ideas, products, and field testing.

### REPORT ON "ADVANTAGED INSTRUCTION" - Joe Levine

Definitions to clarify the distinctions

- -- Remedial instruction to build in weak areas
- --Maintenance instruction to maintain as much as child is able to learn limit has been reached
- --Advantaged build weak areas through child's strong channels.
  e.g. teach to the child's strengths; through strengths to
  weaknesses; work with what child has available; (auditory
  learning, not auditory impaired).

### COMPENSATORY PROCEDURE - David Sabatino

- --compensatory learning style: learner and his own development of one channel when another channel is deficient.
- --compensatory instructional procedure: teacher who uses materials to bypass a deficient channel.

### OTHER

- --Dr. Sabatino suggested several times during the meeting that there needs to be initial development of auditory materials because there is practically no literature in auditory learning. Most of the literature has to do with the visual channel. There are only 3-4 pieces of auditory literature for every 60-70 pieces of visual literature.
- --Question: How do we distinguish what the Consortium is doing with what others are doing for normal kids?
  - a) What we are attempting to do might also be useful for normal kids, but it has to be done for the handicapped child.
  - b) For the normal child it is more efficient to use print, thus auditory learning is given little attention.



### IV. PRODUCTS ENVISIONED (Point 2)

A. Immediate goals: identify, field test, recommend commercially available auditory instructional materials

Looking to organize and integrate efforts to produce sets of materials. Exploratory audio instructional games.

B. Long Range Goals: Develop new materials by Consortium.

Within 1 or 2 years the Consortium hopes to be able to develop a whole curriculum task in a specific area which would lend itself to auditory learning. Develop analogue to Project LIFE, perhaps.

### V. ROLES OF LEADERSHIP AND COORDINATION (Point 3)

- --Joe Levine briefly presented 7 strategies of the MSU Consortium proposal.
  - St. 1 -- 2 meetings during the year for sharing and communication -- circular (1st year not guided by Consortium but used to acquaint members with what is going on at the centers.
    - -- advisement services
  - St. 2 -- management necessary to provide cohesiveness and compatibility with all Centers, thus it is impossible to legislate or give charges. (Later, Summers and Sabatino explicitly stated that the Consortium needs to be managed and there was general agreement among the other members of the Consortium.)
  - St. 3 -- provide a scholarly base of information to share with the members of the Consortium.
    - -- develop a workable way of defining materials and classifying; then define target population
    - -- descriptor list, common vocabulary
  - St. 5 -- development of materials after the first year. Assumes that a lot of people will really be interested in this. Hope for an increase of budget in years ahead for this particular area. Encourage non-duplicative efforts; encourage other units to extend efforts of others.
- St.6 & 7 -- systematize and field testing of materials
  - -- hope for cooperative field testing.
  - -- Stages of field testing

Level 1 - exploratory - see if product is

feasible - just try out

Level 2 - pilot example - formative evaluation (is it doing what it's supposed to do?) Field testing done at nearby place so developer can watch it and revise it.



Level 3 - becomes a part of preliminary set, not isolated material. Tested at other unit test sites. Test external validity, build prototypes.

--It is possible that all centers won't be doing the same things. Some center may just do all field testing.

### VI. PROBLEM AREAS (Point 4)

- A. GLOSSARY OF TERMS Dr. Sabatino expressed at various points throughout the conference the need for a common vocabulary, a glossary of terms, which would allow all members of the Consortium to mean the same thing by the same term. Dr. Ward requested that Dr. Sabatino maintain a list of terms that needed definition and provide appropriate definitions. Dr. Sabatino will have this material disseminated to Consortium members by July 27, 1973 for revision and comment as Task 1 of the Consortiums specific goals agreed upon as a result of this conference. (See TASKS AND TIME LINE)
- B. TARGET POPULATION There was a lot of discussion about target populations because each Center has their own specific area of interest. Dr. Ward suggested that for now this question remain open. We would start with visually handicapped, multiply handicapped, etc. and investigate how materials could be used for other audiences.

It was also suggested that instead of defining by type of handicap, target population should be defined by skill area-auditory-and within skill area by different levels of specificity. However, it was not clear how things would be done differently for different levels of specificity.

Another suggestion: Target population would be any individual for whom visual or tactual reading is a problem.

- C. THE SEARCH (See also feedback from small group discussions)
  - -- The hardest part of the search is the screening evaluating inclusion on subjective basis.
  - -- Must have rationale for selecting material for inclusion.
  - --Carson Nolan suggested that the National Center be responsible for providing search procedures so that all Centers do an adequate job of searching materials.
  - -- To ensure comprehensiveness, there needs to be a format.



- --Another member suggested that MSU determine critchia for gross inclusion in the catalog.
- -- Materials included should be any material-with auditory input characteristics.
- -- The materials can be divided into retrievable categories later (descriptor discrimination)
- -- MSU act as clearinghouse for materials
- -- Searchers must be willing to do things a little differently than if the Consortium didn't exist. Compromise.
- --What materials can go into the Consortium?

include procedures in contrast with published materials? what about materials that can't be purchased by users? list by degrees of availability?

McCarthy looking for unique materials - classroom, research besides commercial. Any source is useful.

--How to limit the area of search for each Center Divide by authors - A-G, etc.? Divide by specific area of interest?

--Assumptions

Everyone similarly competent - arbitrary assignment
Each center has own interest and competencies and would
be better able to cover certain areas

- -- MSU will contact Centers to assign areas of search.
- --Nolan suggested that catalog search was ineffective. Must get the actual materials. It was decided this comes later since this is only a preliminary catalog.
- --hunt for species of materials.
- -- 1) go through commercially available auditory materials that exist
  - 2) those materials that can be used with adaptations (2-3 yrs)
  - 3) those materials that can not be used at all.

### D. EVALUATION OF MATERIALS - DESCRIPTOR VOCABULARY

- -- How can result of search be exchanged in useful way?
- --Should have common, comprehensive format for products so sharing of aterials will be alike.
- --All centers should not evaluate the same material, but should have uniform evaluation model.
- --Armstrong committee--use base of existing (descriptor) information.

  Cue into those parts not do new research on evaluation

  descriptors use output facilitative.

### V. REPORT OF EACH CENTER AS TO WHAT IT IS DOING, WHAT IT CAN CONTRIBUTE TO THE CONSORTIUM AND WHAT HELP IT CAN GET FROM THE CONSORTIUM.

### A. ILLINOIS:

(Dolbert) - working with 3 separate projects:



- 1) materials for training teachers
- 2) auditory materials for visually handicapped
- 3) identify and field test materials for severely multiply handicapped and for all areas with priority on young children
- Illinois now has mandatory program 3-21. Need to identify material and field test material because no one knows if materials are accomplishing objectives
- NEED: rationale for selection of material, what target population, what areas, which materials, methods of evaluating, target date.
- SHARE: identification and field testing (3-10 test centers in Illinois), evaluation components and dissemination, gaps and needs for additional development.
- (Cloppas) isolate and identify literature and materials especially for visually impaired now going through ERIC to see what is currently available needs of visually handicapped as relates to auditory—see if need to create new materials target population: 11-12 year olds (least appropriate materials available for maturity of child) work with teachers in Illinois; these teachers will help to evaluate the materials
- (Alber) need to delimit population lack of listening ability in high school and college age NEED: already identified materials they can evaluate (they don't plan to field test)

### KENTUCKY: (Wakefield)

auditory materials is secondary body of operation, not primary

searching for multiply handicapped and career education material

Blackhurst developing training packages for IMCs (Project 6), reading program done in last couple years is continuing in field testing stages

SHARE: Will try to catch auditory materials when searching for their specific materials

Can develop field test sites - Sterrett has diverse sites, cooperative channels with local school districts, some test sites inhouse, abundance of sites

Will help with the identification of auditory materials when they know what we want.



### PENNSYLVANIA: (Sabatino)

last 18 months assessing what auditory perception is, e.g. componant parts, arousal, attention, etc. most auditory materials are lost due to mental capacity

- 1) auditory perception discrimination
- 2) auditory perception retention
- 3) auditory perception sequencing

in studying regional differences, cross population, not getting variance as supposed target audience: 0-9 (0-4/6-9) decision tree, utilize componants one material better than another--need to look at objectives

NEED: established descriptor list

learner aptitudes

maze or grid of developmental tasks

initial development of materials since there isn't

much to be adapted

task analysis of what exists

SHARE: descriptor skills (Central Coordinating Unit)
100 resource teachers (can provide 14 for us)
1 target site
will do what ever he can with vigor
offered annotated listing of teaching procedures and
research material for annex publication

- Q. Which areas aren't there any materials for?
  - --retain what hear
  - --sequence for sounds
  - --morphological rules

### NEW MEXICO: (Summers)

have nothing so far - have done some search, not sure if has to do with auditory materials don't want to do original development of products field test "our own" products

SHARE: will do search, modification, identification of effective instructional materials having to do with auditory input

will take systematic look at what could be modified

### APHB: (Nolan)

have mainly to do with production and distribution of materials, 8 studios, professional readers professional producers of media - hard and throw away record capacity mass productions of cassettes (spent 1/2 million dollars on equipment) world wide distribution variable speech design and manufacture players and recording equipment modification of commercially produced materials for auditory users



research interest, learning through listening for visual handicapped

indexing of recorded material

now developing auditory materials as accompaniment for previously produced materials, geographical concepts, early language development (Listen/Think Series), math (abacus), recorded encyclopedia, Study Through Listening

SHARE: Will contribute as far as production and distribution specifically re: blind

has good rapport with schools in that area and in Canada; can help with field sites

have bibliography on listening skills - only in area of

blindness though help with research

NEED: format for search

### <u>WISCONSIN</u>: (McCarthy)

mental retardation is primary interest locate materials suitable for severely retarded which could also be of concern for auditory will accept information for reference file which will be obtained through minimum of effort won't purchase very many items

SHARE: test sites

will do formative evaluation and a little bit of field testing

NEED: conceptualization of problems

### NATIONAL CENTER: (Ewing)

will stimulate and cooperate with the consortium don't want to duplicate efforts their projects are concerned with the following:

- 1) needs assessment
- 2) commercial producers file
- 3) field test criteria and sites
- 4) thin market production and distribution
- 5) materials evaluation panel coming in to set up evaluation criteria will go over only materials that they have
- 6) subcontracts
- 7) external/internal auditors
- 8) teacher competency
- 9) improvement of communication efforts
- 10) information delivery system

have a list of all Network produced child-use materials



### (Cotzin)

expanding producers guide

will help with problems in adapting materials (copyright informaton, legal consultation)

Will serve as input channel on materials for kids

Will give expertise and work cooperatively to accomplish goals of Consortium

When giving tasks, though, N.C. should go last

Consortium can tap their resources; they will help and assist but not do anything specific. Will work in whole area with Consortium.

Consortium will act as springboard for activities going on at N.C.

Will help market

N.C. is developing evaluation criteria for readers of materials they've collected now.

Dissemination of final products coordinated by N.C.

N.C. can provide information on what Center has what material and who has judgmental evaluative material on that material already; preliminary search lists will be sent to N.C. for that information.

### MSU: (Carlson)

"Sounds and Images", for creative or gifted, used for MR

try other types of format for interest

1) some things aren't on remedial tracks

2) can be adapted -- does relate to other target areas

### (Levine)

- 1) searching auditory advantaged file of materials
- 2) field testing Network Evaluation Committee sites in Mich. and beyond, available materials
- 3) modify available materials; interactive vs. passive
- 4) new formats: simulation, compressed speech, expanded speech, games (6 defined formats) not test content as much as format; viability of format
- 5) content oriented base material in specific area

NEED: help in examining what is available field testing

### VI. TASKS AND TIME LINE

1. Sabatino will send Glossary of terms to other members of Consortium by 7/27/73 for revision and inclusions. Must get agreement and closure on this material before next meeting. This will be working vocabulary, not descriptor list.



2. Give definition by Center of specific areas for search

Ill., APHB - visual handicapped
Wis., Ky. - mental retardation

Nebr. - deaf

MSU - physical handicapped, and misc.

what is meant by auditory materials?
what should be included in basic search?
criteria - what is to be included and what isn't to be included?
broad categorization with limits

by 9/15/73

3. Search to build total catalog. MSU will phone each Center to sub-divide and assign sources according to interest. Search conducted by Ill., APHB, Ky., Wis., Mich.

Illinois needs search material before rest of centers
Material will be to Ill. by 11/15 (what is available at that time)

Search completed - 3/15/74 Camera ready - 4/15/74

### **FUTURE MEETINGS:**

Meeting last of November to discuss long range objectives of Consortium, and operational hassles, hang-ups and happy hopes on the search tasks.

Preliminary sharing of lists on 1/15.

PRODUCT 1: Preliminary catalog to be published and disseminated

MISC. Hugh Summers will represent Consortium at meeting in Washington on July 27, 1973.



### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Coordinator: Ted Ward

515-353-7836

PRELIMINARY DECISION MAKING-BASED IN PART ON THE DISCUSSIONS AND SMALL GROUP WORK AT CHICAGO, JULY, 1973

PRODUCT 1: THE CATALOG OF AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED.

### 1. What purposes should the catalog serve?

- a. Decision making--presenting alternatives for practitioner
- b. Discrepancy model to show alternatives for instruction and gaps that exist, to be useful in determining needs for new auditory materials.

### Amplification of #1:

For SEIMCs, Associate Centers, local directors, and teachers to:

- --identify available auditory learning materials/ techniques
- --determine feasibility of "goodness of fit" of materials for specific use
- --provide purchase information
- --author's objectives
- --level of use
- -- type of learning problem to interact with

To be developed on basis following:

- --provide comprehensive list of available auditory learning materials and current teaching techniques to enable awareness of availability
- --reveal gaps in available materials
- -- reveal concentrations of materials
- --stimulate specific ideas, creative approaches to materials development
- --suggest potential producers and distributors of Consortium products
- -- suggest potential designers of materials



### Guidelines:

- --a first approximation, not a finished revision
- -- it represents only accumulation to present
- --only child-use materials

### Long range purposes of catalog:

- --attention getting device for qualitative analysis
- --stimulation for professional development

### 2. What sorts of materials should it include?

- a. teaching materials
- b. auditory skill development materials and teaching equipment
- c. other skill equipment with auditory input
- To include all available materials in which listening skills or their application are primary parts.
- "Available" is defined as published material (can be procured by standard purchase order procedures)
- For now the catalog is to be limited to U.S. and Canadian publications.
- A subsequent series of annex catalogs are anticipated. Topics to be represented in this later project:
  - -- research-based materials and procedures, not published
  - --teacher-made materials, not published
  - --out-of-print materials promising for reconsideration or adaptation
  - --materials wherein auditory learning is secondary.



### CONSGRTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall
Michigan State University
East Lansing, Michigan 48824

BEST COPY AVAILABLE

515-353-7838

Coordinator: Ted Ward

October 19, 1973

### MEMORANDUM

TO:

Network Units Collaborating in the Consortium on

Auditory Learning Materials

FROM:

Ted Ward

SUBJECT: November Consortium Meeting

Please reserve Friday, November 9, 1973, for the next meeting of the Consortium on Auditory Learning Materials for the Handicapped. The meeting will be held from 9:00 AM to 4:00 PM at the O'Hare International Tower Hotel at O'Hare Airport, Chicago, Illinois. (The same place as our last meeting.)

If travel plans necessitate your arrival in Chicago on Thursday evening, we are asking you to make your own reservations at the O'hare International Tower and submit your expenses to our office. Because the Tower has offered us a special rate, please be sure to refer to the Consortium on Auditory Learning when making any reservations at the Tower. You may contact the Tower by calling (312) 686-8000, or by writing:

O'Hare International Tower P.O. Box 66414 O'Hare Airport Chicago, Illinois 60666

Within the next day or two you will receive the first of a serics of Audio Newsletters from the Consortium. This first Audio Newsletter addresses itself to the topic of classifying auditory instructional materials. Accompanying the Audio Newsletter is a copy of a form to be used for classifying auditory materials as well as other documentation relating to the topic of classification. This will be a major agenda item for the November meeting.

When you arrive at the Tower, check the meeting room guide for the Consortium's meeting room. We are looking forward to seeing you all in Chicago.





### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Coordinator: Ted Ward

515--353-7838

### AGENDA

INTROD	UCTIO	N.	•	•	•	•	•	•	•	•	9:00	-	9:15	a.m.
GLOSSA	RY .	• •	•	•	•	•	•	•	•	•	9:15	-	10:00	a.m.
THESAU	RUS.	• •	•	•	•	•	•	•	•	•	10:00	-	11:00	a.m.
System	INPU	T .	•	•	•	•	•	•	•	•	11:00	-	12:00	noon
LUNCH	(Room	to	be	e a	nn	Ou	nc	eć	1)	•	12:00	-	1:00	p.m.
SYSTEM							•	•	•	•	1:00	-	2:00	p.m.
MEMBER	UNIT	ACI	riv	ΊΊ	'IE	s	•	•	•	•	2:00	-	3:00	p.m.
POLICY	ISSU	ES.	•	•	•	•	•	•	•	•	3:00	_	4:00	p.m.





### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

### 213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Coordinator: Ted Ward

515-353-7836

### SUMMARY OF PROCEEDINGS

Chicago O'Hare International Tower
November 9, 1973

### I. CONSORTIUM MEMBERS PRESENT

- Dr. Robert Stepp, Midwest Regional Media Center for the Deaf
- Ms. Margaret Nicderer, Illinois Instructional Materials Center, Office of the Superintendent of Public Instruction
- Mr. Carl Oldsen, CEC Information Center on Exceptional Children
- Dr. Carson Nolan, American Printing House for the Blind
- Dr. James McCarthy, University of Wisconsin, Special Education Instructional Materials Center
- Dr. Ted Ward, Consortium Coordinator, Great Lakes Region SEIMC, Michigan State University
- Mr. S. Joseph Levine, Great Lakes Region SEIMC
- Mr. William Anderson, Great Lakes Region SEIMC

### II. INTRODUCTORY DISCUSSION

- A. <u>Cumulative Papers</u> Notebook will be used as a central clearing-house for correspondence and publications of the Consortium. At least one notebook will be sent to each Consortium member. Notebook will be used as discussion guide for today's meeting.
- B. Next meeting tentatively set for first Tuesday or Thursday in February.
- C. M. Niederer expressed her appreciation of the Consortium's Audio Newsletter and progress so far towards its stated goals.
- D. T. Ward stated Consortium's interest was in content issues, not format issues in the development of its auditory learning catalog.

### III. GLOSSARY DISCUSSION (Agenda Item II)

--Glossary is attempt to create a common way to express what we are doing. D. Sabatino's glossary was used for discussion purposes at the meeting. C. Oldsen reported his attempt to incorporate Sabatino's glossary terms into the CEC ERIC Thesaurus.



- --A definition problem arose over the difference between the terms listening and auding. J. Levine volunteered to create two definitions for input to the glossary. J. Levine will also compile bibliography on auding.
- --J. McCarthy suggested inclusion of terms from all Consortium members be added to glossary:
  - 1. J. McCarthy to submit one page paper on description of Auditory Learning and the Mentally Retarded.
  - 2. C. Nolan to submit description on <u>Auditory Learning for</u> the Visually Handicapped.
  - 3. N. Carlson (GLRSEIMC) to submit description on Auditory Learning and the Physically Handicapped.
  - 4. J. Fleming (GLRSEIMC) to submit description of <u>Auditory</u> <u>Learning and Learning Disabilities</u>.
  - 5. J. Crane (Ill.) to submit description of <u>Auditory Learning</u> and the <u>Emotionally Disturbed and Affectively Handicapped</u>.
  - 6. J. Crane will also prepare description of <u>Music Therapy</u> as an Auditory Learning Task.
- -- Change Advantage to Advantaged Instruction.
- --M. Niederer will send definitions that correspond with the Illinois input form.
- --D. Sabatino will be contacted to provide a definition of <u>Auditory</u> Reception.
- --Confusion over distinction between <u>Commercially</u> and <u>Non-Commercially</u> <u>cially Available Materials</u>. Are SEIMC materials commercially available? It was suggested to recreate definitions and establish varying levels of availability. J. Levine will work on repair of these definitions and submit to Consortium.
- --J. McCarthy suggested adding distinction between identification information and classification information. J. Levine will make available definitions from Sourcebook on Evaluation.
- --J. McCarthy suggested Sabatino consider changing <u>Linguistics</u> to <u>Linguistically Based Materials</u>.
- --R. Stepp suggested revising <u>Instructional Maintenance</u>. J. Levine will revise in terms of advantaged instruction.
- --Definition of Non-Verbal Auditory Material is presently unclear.
  T. Ward suggested revision from Sabatino.



- --Definition of Primary and Secondary Sensori-Perceptual Mode should be revised. Revisions should represent all possible combinations of inputs. J. Levine will work on revisions.
- --Suggested that "accurate and rapid" be dropped from definitions of Auditory Perception.

### IV. THESAURUS DISCUSSION (Agenda Item III)

- --C. Oldsen reported Thesaurus Committee has revised CEC/ERIC Thesaurus to include instructional materials terms. Latest revisions will include only those terms for instructional materials. "Professional terms" will be input to ERIC Thesaurus. Instructional materials terms are not official ERIC descriptors at this point.
- --C. Oldsen suggested rapid closure on Consortium glossary so that those terms can be included in latest edition of Instructional Materials Thesaurus.
- --T. Ward suggests trusting work done by CEC/ERIC in conjoint with the task force to be taken in total as our frame of reference.
- --Question: Does Consortium want to go with a common classification frame and if we go with a common classification frame do we want to go with CEC/ERIC? Agreement was on common frame and use of CEC ERIC Thesaurus.
- --Suggested to draft a statement of what is meant by ERIC CEC compatibility, but using ERIC CEC as the arbiter? Are they ERIC terms? Why not? Is this best we can develop? This statement would be included at front of the catalog.

### V. SYSTEM INPUT (Agenda Item IV)

-- C. Oldsen reported task force changes in NIMIS Master Record Form:

Elements 1 - 10: Same

Element 11 : Local Source (where to borrow it)

Element 12 : Descriptors

Element 13 : Abstract/description

Element 14 : Instructions Element 15 : Comment field

Element 16 : Reported evaluation data

Revisions pose no problems in compatibility with Consortium Input Form (A). Some minor re-numbering on Form A will have to take place.



- -- Can Consortium members show transferability between Consortium Form A and their input forms? Should be able to locate (hopefully) all sixteen elements on NIMIS Master Record on local input forms.
- --J. McCalthy suggested taking two materials and circulating them to Conscilium members doing inputing and have them use their present classification sheet to classify the materials and send to the Consortium and let them assess what items are missing.

  J. Levine said he will take care of circulating materials.
- --Summary: Consortium more interested in content than format.
  NIMIS Master Record form will serve as minimum information input;
  anyone can add what information is necessary to operate at local
  level. Also, non-numbered items on Consortium Form A comply with
  classification information contained in the Sourcebook on Evaluation developed by Network Evaluation Committee (See attached
  Table I from Sourcebook).

### VI. SYSTEM OUTPUT (Agenda Item VI)

- --What should catalog look like? J. McCarthy stated ideal would be on-line computer system. T. Ward suggested because we are dealing with a prototype, we should concentrate on some type of paper system.
- -- R. Stepp suggested developing catalog output form to be same or very similar to input form.
- -- C. Nolan proposed doing an examination of different catalog output formats and select best of each via ranking system.
- --T. Ward stated GLRSEIMC would create two to three different output formats. These would be explained in a future <u>Audio Newsletter</u>. Each Consortium member would share catalog output formats with staff and teachers and have recommendations prepared for final catalog output format by February Consortium meeting.

### VII. MEMBER UNIT ACTIVITIES (Agenda Item VII)

--Each Consortium member present reviewed his Center's proposal and explained status of each goal along with the project leaders. This information will be used to revise the member unit activities list in the Cumulative Papers Notebook.



### TABLE 1

Suggested Items for the Identification and Classification of Instructional Materials and Media

### Identification

National #

Local #

Title

Journal

Series title & number

Author

Publication date

Form Designation

Price

Date recorded

Source (Nat'1)

Source (local)

Location

Availability

Category

### Classification

Chronological age

Content

Curricular function

Description

Educational (instruc-

tional) level

Equipment needed

Group setting

Interest level

Learner Skills

Organization

Physical characteristics

Procedure

Purpose (Objective)

Storage

Supplemental activities

Teacher manual

Time needed

Training neesed



### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Coordinator: Ted Ward

515--353-7836

January 9, 1974

### **MEMORANDUM**

TO:

Network Units Collaborating in the Consortium on Auditory Learning Materials for the Handicapped

FROM:

Ted Ward

SUBJECT: Next Consortium Meeting

Because of a conflict with the deadline for submitting proposals for FY 74-75, the next meeting of the Consortium on Auditory Learning has been postponed until Thursday, March 7, 1974. Please circle that date on your calendar.

The meeting will be held again at the O'Hare International Tower Hotel at O'Hare Airport, Chicago, Illinois, from 9:00 A.M. to 4:00 P.M. If travel plans necessitate your arrival in Chicago on Wednesday evening, we are asking you to make your own reservations at the O'Hare International Tower and submit your expenses to our Because the Tower has offered us a special room rate, office. please be sure to refer to the Consortium on Auditory Learning when making any reservations at the Tower. You may contact the Tower by calling (312) 686-800 or by writing:

> O'Hare International Tower P.O. Box 66414 O'Hare Airport Chicago, Illinois 60666

You will be receiving the third issue of the Audio Newsletter \* shortly. The major topic of discussion will be the creation of an output or catalog format for the Consortium's catalog of auditory learning materials. You will also receive further details of the next Consortium meeting.

When arriving at the Tower in March, check the meeting room guide or ask at the front desk for the Consortium's meeting room. We are looking forward to seeing everyone in Chicago in March.





# CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall
Michigan State University
East Lansing, Michigan 48824

Coordinator: Ted Ward

515-353-7836

# AGENDA

- GLOSSARY a final review of existing terms and the addition of new terms.
- 2. "AUDITORY INSTRUCTION" PAPERS a sharing of brief papers to explain the use of auditory instruction with handicapped children.
- 3. <u>MEMBER UNIT ACTIVITIES</u> an update on the activities of Consortium members.
- 4. SYSTEM INPUT an explanation of procedures to classify (input) auditory learning materials.
- 5. SYSTEM OUTPUT the creation of an output format for the Consortium Catalog of auditory learning materials.
- 6. AUDITORY LEARNING PAPERS a call for papers on auditory learning and auditory learning materials to be published by the Consortium.
- 7. AUDIO NEWSLETTER feedback.





### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall
Michigan State University
East Lansing, Michigan 48824

Coordinator: Ted Ward

515--353-7836

### SUMMARY OF PROCEEDINGS

Chicago O'Hare International Tower March 7, 1974

### I. CONSORTIUM MEMBERS PRESENT

- Dr. Robert Stepp, Midwest Regional Media Center for the Deaf
- Ms. Bobbie Cheney, Illinois Instructional Materials Center,
  Office of the Superintendent of Public Instruction
- Mr. Carl Oldsen, CEC Information Center on Exceptional Children
- Dr. Aleki Nickles, National Center for Educational Media and Materials for the Handicapped
- Mr. Sidney Miller, National Regional Resource Center of Pennsylvania
- Dr. James McCarthy, Special Education Instructional Materials Center, University of Wisconsin
- Dr. S. Joseph Levine, Great Lakes Region SEIMC
- Dr. Ted Ward, Great Lakes Region SEIMC
- Mr. William Anderson, Great Lakes Region SEIMC

### II. GLOSSARY DISCUSSION

- -- This is a final attempt to revise terms to provide us with a common professional language for auditory learning.
- --We have already received help from other units.
- --S. Miller raised questions about operational definitions and parameters of terms. Requested "observables." Gets away from dictionary concept and goes beyond scope originally established for glossary.
- --S. J. Levine explained revised versions of terms "commercially available" and "non-commercially available."

### III. AUDITURY INSTRUCTION PAPERS

--Brief papers explaining the use of auditory instruction with handicapped children assigned during the last meeting were reviewed for inclusion in the notebook.



- --Speech puthology suggested as a possible omission. Discussion on the matter concluded it was not a distinct category similar to the others.
- --Purpose of papers is to identify areas where auditory instruction can be used and in what ways with handicapped children.
- --It was decided that present categories were sufficient. It was also suggested that the reports be prefaced with a short header identifying the advantaged learner vs. the disadvantaged learner.

### IV. MEMBER UNIT ACTIVITIES

- --Each member unit reported its activities during the three months period from the last Consortium meeting. Those units who submitted proposals for FY 74-75 briefly explained their plans.
- --T. Ward suggested that those units who are submitting descriptions of auditory learning materials for the Consortium catalog can receive assistance from the Consortium. There are funds established to input materials information from other units.
- --S. J. Levine circulated copies of the GLRSEIMC preliminary field test findings and the field testing process. Also circulated were copies of an auditory design guide to assist in the development of materials for auditory advantaged learners.

### V. SYSTEM INPUT

- -- Most decisions for input have already been made at previous Consortium meetings.
- -- These procedures should not be changed at this time.
- --Discussion on system input reviewed the existing input system. Handouts were circulated of system input form and procedures.
- -- ERIC compatibility was reemphasized for interface between the Consortium and ERIC.
- --Illinois agreed to reorganize their materials form to conform to the Consortium.
- --Consortium members were reminded of financial and human assistance available from the Consortium to make sure all relevant materials identified by mem'er units are input for inclusion in the Consortium catalog.

### VI. SYSTEM OUTPUT

-- The results of a preliminary survey to determine the format or page layout of the Consortium catalog was compiled. Member units selected a format which utilized a picture of the auditory learning material as well as relevant classification information.



- --There was some concern voiced by Consortium members as to whether the format selected was chosen because it was attractive visually or whether it did in fact contain the most appropriate pieces of information.
- --It was decided to conduct another survey of member units to select a format from a variety of prototypes utilizing a picture and classification information. Michigan State's GLRSEIMC will have responsibility for generating prototypes and conducting the survey.

### VII. AUDITORY LEARNING PAPERS

- --The Consortium issued a call for papers on auditory learning in an attempt to increase the amount of scholarly information available on the subject area. The papers will be combined into a monograph series and distributed within the Network.
- -- A "Call for Papers" flyer was distributed to Consortium members, to network units, and at CEC-New York.

### 'III. AUDIO NEWSLETTER

- --Consortium members were asked to respond to the efficacy of the cassette "Audio Newsletter" distributed to Consortium members as a means of keeping them informed of Consortium activities.
- --All members said they found the approach unique and useful. The technique utilizing rate altered speech to cut listening time was identified as perhaps the most useful attribute of the newsletter approach.
- -- Some members commented they found the inclusion of visual stimuli to accompany the audio message helpful.
- --To summarize, feedback was positive and it was suggested that should the Consortium continue, the audio newsletter would be a viable communications device.



The Consortium on Auditory Learning Materials for the Handicapped is preparing a series of professional monographs for national distribution on the use of auditory instruction with handicapped fearners. This series of monographs will represent one the to fit the Consortium's efforts to introduce educators to the effective utilitation of instructional techniques and materials that call upon the auditory modality. The Consortium invites interested educators to submit papers to be considered for this monograph series.

# calforpapers

WHAT IS MEANT BY AUDITORY LEARNING? Many handicapped children learn best through their ears. The obvious example is that of the blind child and his dependence on the auditory mode as the most efficient means of receiving information. However, other handicapped children, those that are inferred to as "auditory learners", can also learn most efficiently in this manner. For these auditory less it is important to understand their capabilities and the types of instruction that can capitalize on these auditory capabilities.

WHAT PAPERS WILL BE CONSIDERED? All papers that are submitted must relate specifically to the topic of auditory instruction. Possible topic areas can include but are not limited to:

Innovative designs for instruction through auditory materials.

The role of auditory instruction with handicapped children.

Classroom procedures for using auditory-based instruction.

Systems for evaluating the effectiveness of auditory learning materials.

Identifying auditory learners.

Characteristics of auditory presentation equipment that enhance the learning environment.

Using auditory learning materials with specialized audiences.

Papers may deal with theoretical issues, research results, or practical applications. However, papers should not deal with topics directly related to auditory perception and the development of auditory perceptual abilities.

The Consortium on Auditory Learning Materials for the Handicapped was established in an attempt to tie together those federally funded projects that have a common interest in auditory learning with handicapped children. Activities of the Consortium include the development of procedures for identifying and classifying auditory instructional materials, the production of catalogs and indices of available auditory instructional materials, the design and availation of auditory instructional materials, and other project activities related to auditory learning. Members of the Consortium include projects at American Printing House for the Bling/University of Northern Colorado/Illinois Instructional Materials Center/University of Nebraska/New Mexico State University/University of Oregon/Pennsylvania State University/University of Wisconsin/Ohio State University/Michigan State University.

### SPECIFICATIONS FOR THE SUBMISSION OF PAPERS

- 1 All papers should be typewritten, double spaced.
- 2. An abstract or summary of the paper should be included.
- 3. Author's name, job title, business address, and phone number should be included.
- 4. Papers should be no more than 32 pages in length (including all charts, pictures, or illustrations).

### DEADLINE FOR SUBMISSION: May 15, 1974 All papers and inquiries should be directed to:

Dr. Ted Ward, Coordinator
Consortium on Auditory Learning Naterials for the Handicapped
2l3 Ericks in Hall
Michigan State University
East Lansing, Michigan 48824
Telephone: (5l7) 353-7836



### SECTION FOUR

### **AUDIO NEWSLETTER**

As a means of communicating with Consortium members, an "Audio Newsletter" cassette was prepared and distributed to members three times during the project year. Topics of the newsletter were related to Consortium activities and work assignments, and to the general topic of auditory learning.

All newsletter cassettes were rate compressed and were accompanied by relevant handout and survey forms. This section of the report contains materials accompanying the newsletters listed below.

Topics for the newsletters are as follows:

- <u>Volume I, Number I</u>: "A Classification System For Auditory Learning Materials."
- Volume I, Number II: "Consortium Meeting Postscript,"
  "Auding Vs. Listening," and "Compressed Speech."
- Volume I, Number III: "Auditory Materials Catalog Survey," and "Sub-Channel Radio."

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**57** 

CLASSIFICATION DESCRIPTORS 1) - PRIMARY MODE - INPUT 5) AREA OF FOCUS . Auditory (presumably this will be it) Gross Motor (basic skill) Visual \*ine Motor (basic skill) Listening (basic skill) ?) SECONDARY MODE - INPUT Auditory Discrimination (basic skill) Auditory Auditory Perception (basic skill) Visual Self-care skills (basic skill) Tactile Mathematics (cognition) Kinesthetic Reading (cognition) Communication skills (cognition) 3) METHOD OF OUTPUT Literature (cognition) Verbal communication Music (ecgnition) -one word Vocational Education (cognition) -phrases Safety Education (cognition) -paragraph or story format Science (cognition) Manual expression Social Studies (cognition) Career Education (cognition) -pencil & paper -manipulative materials INSTRUCTIONAL LEVEL Tactile Pre-school Rinesthetic Primary (grades 1-3) -dramatic play Intermediate (grades 4-6) -other bodily movement response Advanced (grades 6-12) 4) PREREQUISITE LEARNER SKILLS INTEREST LEVEL Group A Pre-school Expressive language Elementary -one word Adolescent -phrar :s Combination of 2 (indicate) -paragraph Manual abilities PRESENTATION METHOD -pencil & paper Conversation -ability to turn pages Dramatization -ability to point Direct Information Gross motor skills Storytelling | -ability to move about room (mobility) Simulation -muscular strength Drill Visual acuity Interview **Visual** perceptual skills Other Knowledge of equipment utilized 9) EQUIPMENT NEEDED Group B Reel-to-reel tape recorder Abstract reasoning Cassette recorder Sequencing Audio tape Logical thinking Tape cassettes Auditory memory Phonographs Math Paper/Pencil -readiness Braille writing device -simple facts (addition & subtraction) Manipulative material -advanced addition and subtraction Filmstrip projector -multiplication Opaque projector -division Earphones -algebra Extension cord -trigonometry Other Alphabetizing Library Lills 10) RECORDS FORMAT ALTERNATIVE Reading skills Monaur&l or Stereo phonograph -reading readiness record -primary A (grade 1)

-primary B (grades 2 & 3)

-elementary ( grades 4-6)

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the Teacher's Handbook to develop pupils' ability to understand and retain what they hear. The teacher reads listening selections, and students answer comprehension questions in their record books. Rate Builder cards are presented to develop speed and concentration. Each card includes a short reading selection followed by comprehension questions to be

3 minutes. Students check their responses with the Rate Builder Key Booklet. (VR)

in the Student Record Book. The teacher limits reading and answering time to



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Discovering Opposites is a boxed set of materials designed to provide opportunities to develop the ability to recognize, discriminate, and classify opposite concepts. The publishers state that the kit promote learning associated with language and social development and reading readiness skills as pupils work together using the activity kit and sharing the product of their work with their classmates. The materials may also be used for individual instruction. The kit contains eight 8 1/2- by 11-inch opposite concept cards (in/out, up/down, big/little, and under/over; hot/cold, happy/sad, on/off, and dirty/clean); six full color picture cards for each of the eight opposite concept cards, or a total of 48 pi ture cards; opposite word cards to provide reading vocabulary reinforcement: and a teacher's information sheet. The full color key pictures at the top of each 8 1/2 by 11 base card illustrate an opposite concept, and pupils complete the card by identifying and matching six additional illustrations of the same opposite concept and placing them on the base card. These additional picture cards are coded by the following shapes to help the pupil relate them to the appropriate base card: parallelogram, oval, rectangle, trapezoid, square, hexagon, triangle, and circle. The use of the opposite word cards is optional according to grade level. The 9- by 11 3/4-inch storage kit is plastic. (VR)



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The Wollensak 1500 SS Tape Recorder is used as audiovisual equipment with pre-recorded and self-made tapes for any curriculum areas such as language development, speech correction, reading instruction, and mathematics. It is a two-track, monophonic solid state tape recorder, 6 1/2 inches by 10 1/4 inches by 11 3/4 inches, weighing 18 1/2 pounds. Recording and playing speeds are at 3 3/4 and 7 1/4 L.P.S.; the keyboard has "stop," "play," and "record" buttons; a fast foward and rewind switch is provided. The recorder contains provisions for monitory and public address use. A microphone and patch cord are included as standard equipment. Two of these recording units can be patched together for duplicating tapes. (LS)







### NIMIS Master Record

- Field 1 Unique national system identification symbol to be assigned by a national authority.
- Field 2 Title, (including sub-title and/or alternative forms, such as inversions, acronyms), Edition data.
- Field 3 Aggregate, whole from which material is taken, to identify a portion of a material.
- Field 4 Series, title and number.
- Field 5 Author(s), last name, first name, up to two authors, if more than two list as "and others."
- Field 6 Publication date, Copyright date.
- Field 7 Form designation, physical description, piece-page count, time, from authority list category and alternate forms designation.
- Field 8 Equipment, material required (borrower must know what is needed to use material).
- field 9 Catalog price and catelog date.
- Field 10 National source of supply includes address, OR delivery system entry code OR not available.
- Field 11 Descriptors from TSIMDSE authority lists.
- Field 12 Abstract/description, not to include information found in previous fields.
- Field 13 Instructions for use of material.
- Field 14 Comment field (cautionary) not to include evaluative data.
- Field 15 Photograph(s)
- Field 16 Reported evaluation data and currency data as available.

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# CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824 G

Coordinator: Ted Ward

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515-353-7836

The following pages comprise the second draft copy of possible descriptors for use with the NIMIS Master Record, as developed by the CEC-ERIC Information Center.

The numbers following each descriptor refer to general categorical headings found in the <u>Instructional Materials Thesaurus for Special Education</u> (April, 1973).

- 1. Exceptionalities and Dysfunctions
- 2. Special Health Problems and Diseases
- 3. Human Development
- 4. Environmental Influences
- 5. Groups and Organizations
- 6. Learning
  - 7. Cognitive Processes
  - 8. Behavioral Terms
  - 9. Tests and Evaluation
- 10. Prevention, Remediation and Therapy
- 11. Sensorimotor Skills
- 12. Skills

- 13. Curricular Terms
- 14. Instructional Approaches to Teaching Methods
- 15. Instructional Materials
- 16. Equipment
- 17. Form or Format-Non Print
- 18. Form or Format-Print
- 19. Educational Levels
- 20. Educational Programs
- 21. Facilities
- 22. Administrative Terms
- 23. Personnel
- 24. Professional Subjects and Research Terms
- 25. Employment





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IDENTIFICATION INFORMATION

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	Address: 575 West Tift, South Holland Illinois 60473 (10)
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# CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

**Joordinator: Ted Ward** 

515-353-7836

AN INTRODUCTION TO

ميسي.

SUB-CHANNEL RADIO

(KEYED TO VOLUME 1, No. III of the AUDIO NEWSLETTER



### I. WHAT IS IT?

Every FM radio station has the potential of offering at least two sub-channel services. One sub-channel is generally used for stereo broadcasting. The second is often not in use; if it is generally used by commercial radio stations on a rental basis to provide background music in department stores, doctors' offices, etc. Non-commercial FM radio stations, licensed to public school systems and to colleges and universities, can use the second (and perhaps the first) sub-channel to provide instruction and information for blind and physically handicapped individuals, and to provide instructional and continuing education programming to educators, doctors, nurses, engineers and other professional groups.

# II. HOW DOES IT WORK?

Classroom instruction, seminars and conferences are produced live or pre-recorded for broadcast over the sub-channel station. The recipients of this information must have a pre-tuned, single-frequency receiver set at the sub-channel frequency. The signal received cannot be heard by the general public on their "home" receivers. Each receiver presently costs approximately \$50. Signals are receivable with good quality within a 50 mile radius, depending upon terrain, power, and antenna height. Groups of individuals may receive the information through a centralized receiver located in a classroom, conference room, or auditorium while others take part in the conference or instruction with an individual receiver in the home or office.

# III. WHAT IS TWO-WAY SUB-CHANNEL?

One-way radio is just as the name implies: Information is broadcast by the radio station and received by the listener. Any and all questions from the listener generated by the information broadcast must be presented by telephone. One-way sub-channel radio is the most efficient method of transmitting hard information or reading materials to specific individuals in their homes or offices.

The two-way radio technique preserves the all-important instructor/
student relationship, since an interchange of questions, answers,
and discussions takes place almost as easily as it does when individuals are face to face. It is also important for those considering the possibilities of two-way radio to realize that there
is no lack of visual components. Visual aids can be used extensively, since the participating students gather in groups where
two-way radio facilities are available. The visual components
include mimeographed material, videotapes, and projected transparencies distributed in advance to each participating group. All
participants view and discuss a given slide, videotape performance,
outline or chart at the same time.



# IV. WHAT KINDS OF PROGRAMS DOES SUB-CHANNEL BROADCAST?

To give you a sample of programming currently available over the sub-channel service, see Appendix A, from the November, 1973, program guide of the Minnesota Radio Talking Book service.

# V. WHO CAN I CONTACT FOR MORE INFORMATION?

Mr. Richard D. Estell General Manager WKAR AM and FM 112 Auditorium Building Michigan State University East Lansing, Michigan 48824



# LISTENING AND AUDING

"Listening is the process of reacting to, interpreting, and relating the spoken language in terms of past experiences and future courses of action. Viewed in this manner, it becomes more than passive participation, more than just hearing." (1)

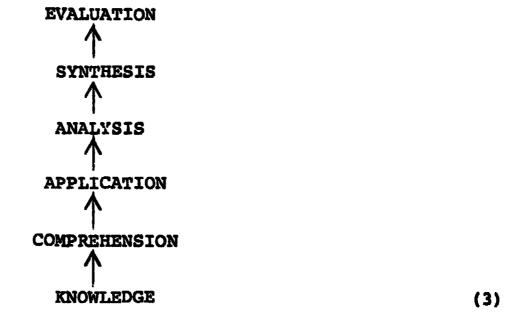
RESPONDING
AND
ORGANIZING
HOLD SOUND
IN MEMORY

SEARCH—> COMPARE—> TEST CUES—> RECODE

GETTING
MEANING

LISTENING—> INTELLECTUAL

(2)





HEARING

Speech Sounds

LISTENING

Auditory Analysis Mental Reorganization Association of Meaning

AUDING

Meaning

(4)

- (1) Barbe, Walter B. and Robert M. Myers, <u>Developing Listening Ability in Children</u> (from Duker, <u>Sam; <u>Teaching Listening in the Elementary School:Readings</u>), The <u>Scarecrow Press, Metuchen, N.J., 1971, pg. 31.</u></u>
- (2) Lundsteen, Sara, <u>Listening</u>, <u>Its Impact on Reading and</u>
  Other <u>Language Arts</u>, National Council of Teachers of English, Urbana, 1971, pg. 43.
- (3) Bloom, Benjamin S., et al, <u>Taxonomy of Educational Objectives</u>, <u>Handbook I: Cognitive Domain</u>, <u>David McKay Co.</u>, <u>New York</u>, 1956.
- (4) Taylor, Stanford E., Listening, National Education Association, Washington, 1973.

S. Joseph Levine November 1973





# SECTION FIVE

# AUDITORY LEARNING MATERIALS CATALOG

A major output of the Consortium on Auditory Learning
Materials for the Handicapped was a catalog identifying appropriate audiovisual materials for auditory learning. Two different processes were initiated in an attempt to locate and report appropriate information for appropriate materials. A system input process involves identifying and classifying information about materials. A system output process involves preparing the information in its most useful form for the catalog user.

Both processes were reached utilizing Consortium member input. A major concern of the Consortium was input compatibility with CEC-ERIC. An input process similar to the one used by the Michigan State GLRSEIMC and consistent with the Evaluation Handbook was adopted at the November Consortium meeting. A series of three questionnaires were used with participating member units to determine the final output format.

Included on the following pages are documents explaining the input and output processes, and sample questionnaires. A copy of the final Consortium catalog is also included in this report.

### CLASSIFYING AUDITORY INSTRUCTIONAL MATERIALS

This first part of the catalog is designed to provide a back-ground and description of procedures developed by the Great Lakes Region Special Education Instructional Materials Center (GLRSEIMC) for the classification of auditory instructional materials. The procedures described are those employed by the GLRSEIMC in their Media and Materials Development Unit which has been undertaking the evaluation and development of auditory instructional materials for handicapped children.

Why classify materials? The classifying of instructional materials according to a systematic procedure establishes the foundation for numerous decisions that are often impossible without such a procedure. The ultimate decision that must be made is the appropriate matching of an instructional material with a specific learner. To make such a match demands either a) prior knowledge and use of the instructional material, b) an opportunity to "try out" a material with a learner, or c) precise information regarding the material and its potential use. Obviously, the first alternate (prior use of the material) is the most effective. A teacher who has used a material understands the dynamics of it and whether or not it is appropriate for the situation. With the many new materials becoming available each year, however, an individual teacher's knowledge and use of a high percentage of available materials is shrinking at a phenomenal rate. Teachers are finding that, though they are becoming familiar with many new materials, the number to choose from is insurmountable.

The second alternative (trying out a material) can be effective, but certainly not efficient. Which materials should you try? Can you "borrow" materials for use in your classroom on a trial basis? Where do you begin?

Making this second alternative more efficient depends on the information that is available to the teacher. If he has precise information about a material (the third alternative), he can select certain ones to try (second alternative), and after trying them he will be able to make future decisions based on experience (first alternative).

What should be included in a classification system? The GLRSEIMC began the task of designing a classification system for auditory instructional materials by examining existing systems and selecting aspects of each that "seemed" to be appropriate for classifying auditory instructional materials. (1) When the first model was developed it was used by staff members in an attempt to select specific instructional materials for use with learners involved in the field-testing program. This is the key in the development of this classification system. The system could only be considered usable if it would allow teachers and staff to make a learner/material match. Consequently,



the system was made on the basis of either a) including an aspect that was found to be important in the decision making process, or b) deleting an aspect that did not contribute. It should be understood that the primary purpose in the development of this classification system was to support the ongoing efforts of the GLRSEIMC in selecting appropriate materials for field testing. It is felt that the current system meets a high percentage of our needs in this area.

Finally, the classification system was examined regarding its compatibility with national systems for describing instructional materials. Minimal modification was made in the system to accomplish this compatibility. (2)

The parts of the system. The following pages show all of the parts of the classification system that was developed.

# AUDITORY INSTRUCTIONAL MATERIAL IDENTIFICATION INFORMATION

This is the actual form that is used for collecting information. It has been kept down to one page in length to make the classification task more viable for the person actually doing the classification.

CLASSIFICATION DESCRIPTORS for Auditory Instructional Material Identification Information Form

This set of descriptors forms the basis for the responses to be entered on the form. Through the use of specified descriptors it is possible to establish a consistency of information on all completed forms and it allows an interlock with terminology used on a national basis. (3) It should be understood, however, that the person classifying a material is not limited to this list of descriptors and can add others to the form as the need arises.

# HOW TO USE THE AUDITORY INSTRUCTIONAL MATERIAL IDENTIFICATION INFORMATION FORM

This is the procedure for completing the form. Again, the outlining of a specified procedure further guarantees a consistency of information from form to form.

# LEARNER CLASSIFICATION SYSTEM

The Learner Classification System (LCS) was developed as a meaningful descriptor to be included in the classification system. The LCS provides a single descriptor approach for providing information regarding the type of learner (developmentally) that can best benefit from a specific instructional material. The LCS is designed primarily to be used in conjunction with the classification system.



### THE CATALOG

The Catalog itself is considered to be the final "output" product to provide the user, specifically teachers and teacher trainers, with easily retrievable information regarding auditory learning materials. The catalog form itself is a result of a survey of teachers regarding what information they have found to be most helpful in identifying useful teaching materials. Preferences regarding format were also sought. Information gathered during the material identification phase has been transposed to the "output" format. This final product is the result of these preferences and opinions of the actual intended audience.

<sup>(1)</sup> Of particular help was the Evaluation Handbook developed by the SEIMC/RMC Network. This Handbook provided an overview of a number of different systems that have been used and are currently being used in the area of special education.

<sup>(2)</sup> The concern was to provide maximum compatibility with the ERIC-CEC Clearinghouse. Small numbers in parentheses on the form indicate the parallel entry in the NIMIS Master Record, the system being designed by ERIC-CEC for national use.

<sup>(3)</sup> The primary base for descriptors was the ERIC Thesaurus for special education. The Thesaurus presents descriptors used in the ERIC system. All terms selected for use in the classification system were checked against the ERIC Thesaurus and in needed cases were modified to guarantee consistency. Since, however, the ERIC system does not yet accept materials in other than print form, certain descriptors appear in the classification system that have no arallel form in ERIC.

### AUDITORY INSTRUCTIONAL MATERIAL IDENTIFICATION INFORMATION

### BEST COPY AVAILABLE

Lessons (include total number) singular multiple sequential  Prime per lesson Follow-up activities: required suggested none setting(s): individual small group large group  Instructions for Use  Teacher directed? yes not searciptive Comments			TITLE:
Author(s) (5) Publication/Copyright date SOUNCES. National company address  Local company address  Catalog price and date (9) Mational Identification Symbol CEC ERIC Descriptors  CLASSIFICATION: Primary Secondary Mode of Input Prype of format (note quantity of each) Matched of Output Curricular Area Instructional Level Curricular Area Instructional Level Curricular Area Interest Level Categories Skills  ATERIALS USE: Instructional OR Supplemental Teacher's manual yes nubjectives  dessons (include total number) singular multiple aequential ime per lesson Follow-up activities: required suggested none etting(s): individual small group large group  matructions for Use Teacher directed? yes not secriptive Comments			
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Primary Secondary  Mode of Input  Type of format (note quantity of each)  Method of Output  Curricular Area	\^^/		
Method of Input  Type of format (note quantity of each)  Method of Output  Curricular Area			CLASSIFICATION:
Type of format (note quantity of each) Method of Output  Curricular Area			Mode of Input
Material of Output  Curricular Area	 (7)		Type of format (note quantity of each)
Attentional Level  Attentional C.A. , M.A. , Stage	<del></del> -		Method of Output
Prerequisite Skills  ATERIALS USE: Instructional OR Supplemental Teacher's manual yes n Objectives  Descriptive Comments  Teacher directed?  Teacher directed?	_	Instructional Level	Curricular Area
ATERIALS USE: Instructional OR Supplemental Teacher's manual yes nobjectives  Descriptives  Descriptive Supplemental Teacher's manual yes nobjectives  Descriptive Comments  Descriptive Supplemental Teacher's manual yes nobjectives  Teacher directed? Yes nobjectives  Teacher directed? Yes nobjective Comments		Interest Level	Minimum: C.A, M.A, Stage
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	_(13,1		The Comments
	_		
		·	
scessary equipment & possible special features	_(8)		
Classified by			



### CLASSIFICATION DESCRIPTORS

### FOR AUDITORY INSTRUCTIONAL MATERIAL IDENTIFICATION INFORMATION FORM

This descriptor list is to facilitate filling out Section II of the Auditory Instructional Material Identification Information form.

### MODE OF INPUT - Primary and Secondary

Auditory Visual Tactile Kinesthetic

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### MINIMUM C.A., M.A.

This item should be completed by showing the appropriate minimum ages in years as opposed to showing age according to grade level.

### YPE OF FORMAT

Phonograph Records Audiotape, reel-to-reel Audiotape, cassette Audiotape, flashcards

### METHOD OF OUTPUT

Verbal expression
Non-verbal expression
manual (includes handwriting)
kinesthetic
tactile

### CURRICULAR AREA

Affective behavior/development Auditory perception Career education Communication skills listening skills/comprehension reading verbal communication Consumer education Daily living skills Environmental education Health/safety education Literature Mathematics Motor skills Music Prevocational education Science Self-care skills Sex education Social skills Social studies Spelling Other (specify) INSTRUCTIONAL LEVEL

### STAGE

This is an optional item to define the type of learner best suited to this material. For information regarding the definitions of learner stages, see Learner Classification System by Nancy Carlson and Cindy Lafkas.

### INTEREST LEVEL

Pre-school
Primary (grades K-3)
Intermediate (grades 4-6)
Advanced (grades 6-12)

### PREREQUISITE SKILLS

When using each descriptor, be sure to note level of competency: minimal, instructional, or competent.

Auditory memory
auditory attention
auditory selective recall
auditory sequential memory
auditory imagery
Visual perception
Reading
Mathematics
Cognitive functions

### NECESSARY EQUIPMENT

Tape recorder, reel-to-reel
Tape recorder, cassette
Audio flashcard reader
Phonograph
Filmstrip projector or viewer
Manipulative materials
Paper/pencil/crayons
Other (specify)



Pre-school
Primary (grades K-3)
Intermediate (grades 4-6)
Advanced (grades 6-12)



### HOW TO USE THE

### AUDITORY INSTRUCTIONAL MATERIAL IDENTIFICATION FORM

The purpose of this documentation is to facilitate the use of the Auditory Instructional Material Identification form (examples of this form are included). The meaning and purpose of each item will be explained. Examples are given from a completed form.

The numbers, 1-15, which appear in parenthesis on the righthand side of the form represent the field numbers of the cataloging system of the National Instructional Materials Information System (NIMIS). They are included here in order that entries of this system will parallel those of NIMIS and thus enhance its usability. While using this form, the numbers need not be given special consideration.

ı.	TITLE: Beginner's Rivi Box	(2)
_	(2)	
	Record the title of the particular material being classified	
	as stated by the publisher, including subtitles and/or alter-	
	native forms, such as inversions, acronyms. Edition data, if	
	applicable. If the material is a portion of a whole (i.e.,	

one song from a record of many songs), state this, and include

Series, title & number \_\_\_\_\_\_(3,4)

For materials which are not part of a series, this does not apply, and, therefore, will be blank.

Author(s) Julia K. Fenderson (5)

the titles of both.

Publication/Copyright date 1973 (6)

If more than two, list as "and others." May write in names of editor(s) if "none listed."

SOURCES: Mational	Educational Insights	211 S. Hindry Ave. Inalewood. CA 90301	(10)
Local	company MSU-SEIMC	actress 213 Erickson Hall <u>Michiaan State</u> University	(11)
	company	address	(21)



Record names and addresses of national and local sources of supply or delivery systems or "not available."

Catalog price and date

\$12.95 . 1973

National Identification Symbol

(1)

Enter cost of material and the date of catalog in which the price was listed. May enter purchase price and date of purchase if catalog not applicable.

Refers to a unique national system identification symbol to be assigned by a national authority.

CEC ERIC Descriptors

(12)

Descriptors from ISIMDSE authority lists, as used by the Council for Exceptional Children, Educational Resources Information Center.

### II. CLASSIFICATION:

With the Identification Information Form is a page entitled Classification Descriptors which is a list of descriptors from which to choose in completing the items in this section. Great care has been taken to use descriptors which would 1) offer guidelines and facilitate the ease and efficiency with which the form is used, both by the classifier and the reader, and 2) correspond to those used by ERIC. If the supplied list proves inadequate for a particular material, other descriptors may be used.

	Primary	Secondary
Mode of Input	<u>auditory</u>	<u>visual</u>
Type of format (note quantity of each)	1 cassette	10 illustrated (7) information cards

Size, speed or number of tracks may be recorded, if necessary.

May be filmstrip, book, objects, pictures, etc.

Method of Output none

Record the type of response that is required of the learner. For example, he may be asked to answer questions orally or tell a story (verbal expression), write responses, group objects, or mark choice (non-verbal, manual), dance or move around room (non-verbal, kinesthetic) or manipulate an abacus (non-verbal, tactile). If no response is demanded, "none" should be entered.



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C	urricular Aces and Alexander Instructional Level primary/interm.
×	inimum: C.A. 6 . M.A. 6 . Stage II Interest Level primary/interm.
	See Classification Descriptors
P	rerequisite Skills auditory memory - all areas competent; reading - instruc- tional
	The purpose here is to further clarify the appropriateness of a material for particular learners. Not all of the skills suggested on the list will be necessary for use of any one material. Select those required and note the highest necessary level of competency for each skill: minimal, instructional, or competent.
	MATERIALS USE: Instructional OR Supplemental
	Mark (x or ) after "instructional" if the material does indeed teach a concept, skill, etc. in and of itself or after "supplemental" if it is best used in conjunction with other instruction.
	Teacher's manual x yesno
	Mark yes if manual is included with the purchased material; no, if not included. Direction for use, objectives, etc. printed on a record cover can constitute a teacher's manual.
	Objectives <u>identification of 8 of 10 birds and their calls. birds eggs and</u> silhousttes, characteristics of different birds, and ways birds help ecology
	May be quoted from author/publisher or may be as seen by the classifier.
	Lessons (include total number) singular multiple sequential

Enter a number in one of the three blanks to show how many lessons are included in the material, i.e., singular 1 or multiple 2 or more, if the lessons can be used in any order, or sequential 2 or more, if the lessons are designed to be used in a definite order.



Time per lesson to the

### BEST COPY AVAILABLE

State in minutes per individual lesson.

ired	suggested	<u>x</u>	non•	
	ired	iredsuggested	iredsuggested T	siredsuggested # none

Mark (x or /) in one of the three blanks to show whether follow-up activities are given by the author/publisher as an integral part of the lesson (required), as a possible supplement to the lesson (suggested) or not offered (none).

Setting(s): individual \_\_\_\_ small group \_\_\_\_ large group \_\_\_\_

May be suggested in manual or may be as seen by classifier. Many materials may be used in more than one of the three settings.

Instructions for Use <u>designed for use in segments</u> (by specific birds) - could be (14) used in small group or individual study carrel - teacher's manual is complete and useful guide.

Brief description of how the material is to be used.

Teacher directed? \_\_\_\_\_yes \_\_ \_\_ no

Mark to indicate whether or not a teacher is necessary during the actual lesson.

instructions are included to turn off cassette and repeat section - well
illustrated picture and information cards - music and words to songe also
included - well done

Include information not found elsewhere on form. Do not include evaluative data. Suggested useful information: audio presentation method used (dramatization, direct information, drill, song, storytelling, etc.), voices, music, sound effects, etc. used, whether lessons seem to be pre/post testable, whether the auditory component could be used without the secondary component.



Mecessary equipment & possible special features	cassette recorder (8)

Some possible responses for this item are included in the Classification Descriptors. Other necessary equipment should be listed, such as earphones, opaque projector, etc. Noteworthy special features could be modifications such as the button box or any aspect of the material that might not be suitable for use with standard equipment.

Classified by	_ Narsha C Smith	-
	<del></del>	

Great Lakes Region Special Education Instructional Materials Center - 1/74

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### LEARNER CLASSIFICATION SYSTEM

This paper describes an initial attempt to develop a system for specifying learner/instructional material interaction characteristics. The information collected on many evaluation forms and presented in catalogs of instructional materials allows the teacher to make a number of different decisions regarding the selection of appropriate instructional materials. The information, however, most often allows decisions based on physical characteristics and content area of the material. Decisions relating to matching materials with learner characteristics is usually spotty (reading level may be specified) and often too general to be useful (i.e., early elementary, trainable retarded, etc.). To make meaningful decisions about the appropriateness of a material for a specific learner demands a usable system for specifying the characteristics of learners that are appropriate for a specific material. An attempt at building such a system is described in this paper.

The Learner Classification System utilizes an organizational table that accommodates four "learner variables" and defines each variable at three different "learner stages." Such a system provides a single meaningful descriptor for understanding the type of learner for which a material is most appropriate. This descriptor (Stage I, Stage II, or Stage III) defines the mental age, chronological age, performance grade level, and level of emotional/social development. The following table presents the components of the Learner Classification System and the definition of characteristics at each stage.

### LEARNER STAGES

		STAGE I	STAGE II	STAGE III
LEARNER VARIABLES	MA (Mental Age)	2-7	7-11	11-
	CA (Chronological Age)	3-	5	9-
	Performance Grade Level	Pre-School	K-6	1-12
LEA	Emotional/Social Development	egocentric	interaction with others	logical and egocentric thought

The four variables included in the Learner Classification System (MA, CA, Performance Grade Level, Emotional/Social Development) were selected on the basis of information about instructional materials that is a) easily accessible and generally available and b) critical to evaluation of auditory learning materials.



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### DISCUSSION OF LEARNER VARIABLES

Each of the four learner variables can be shown as a developmental process. Children operate at different developmental levels for each of the variables. The organization of these variables into definable stages is based on the finding that a high percentage of children are consistent in their developmental patterns. In other words, when a child operates at Stage I in mental ability, he will also be operating at Stage I for the other variables. Of course there are exceptions to this, but most children are found to be consistent. We are hopeful that these characteristics of learners, as we understand them, will provide a framework for matching a particular material appropriate to a particular child for an enjoyable auditory learning experience.

The following working definitions of learner variables and the stages for each are provided to clarify the interpretation and use of the Learner Classification System.

### A. MENTAL AGE

Stage I: Mental Age 2-7 - A child who has a mental age between 2 and 7 has experienced the world through his motor senses. Therefore, his mental ability is directly related to his first-hand experiences. Depending upon the quality and quantity of these experiences, he is ready to move on to symbolic associations with these experiences. This is when he can learn language. This acquisition allows him to internalize action rather than being purely perceptual and motor. Between the mental ages of 2 and 6 the learner is largely egocentric both in language and social behavior. But around the mental age of 6 or 7, the learner begins to accommodate other's viewpoints and behaves more socially.

While he is acquiring language, the 2 to 7 year old is able to see only parts of an event rather than the entire event. He fixes his attention on only one aspect at a time and because of this he makes judgments based on what he sees. For example, a longer row of marbles looks like more to him even if it is in fact less in number. It is type of judging does not allow him to follow reasoning back to a beginning point. These reasoning abilities limit him in learning and therefore define more specifically the type of materials we choose for this learner. In an auditory learning experience, the learner can focus only on one aspect of the auditory message at a time. This has a tendency to limit the learning experience unless repetition of key points is facilitated.

Stage II: Mental Age 7-11 - Between the ages of 7 and 11, the child no longer bases his judgments on perception. He can follow a series of events, sees the changes, and can follow a line of reasoning back to starting point. He is a social being in specific situations



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only. His socialization has not yet generalized to society as a whole. The learner is not yet at a point where he can deal with hypotheses or purely verbal problems. He reasons through problems only with the aid of concrete objects and sequenced events. He is able to draw conclusions and solve problems correctly only if they are presented to him materially. Therefore, in choosing materials for this stage two learner, we can look for those materials which require thinking and are accompanied by concrete objects and events. In an auditory learning experience, a learner at this stage can be expected to follow the message if provision is made to facilitate the learner having contact with some more concrete and/or interactive material during the time he is required to listen.

Given cognitive functioning between the mental ages of 7 and 11, we find the vast majority of learners in elementary and special education classrooms fall into this area. This has necessitated a further examination of developmental characteristics which occur during transition periods of Stage II. For the sake of convenience, two sub-stages (IIa and IIb) have been designated. Children who are in the process of developing concrete learning abilities can be considered at the beginning level of the Stage (IIa), those that have developed the abilities and are using them appropriately can be considered at a more advanced level (Stage IIb). It may be important to break down Stage I and Stage III also, but we do not as yet have sufficient information to do so reliably.

Stage III: Mental Ages 11-15 - By the age of 11 the learner can solve problems through logical thought. Problems can be solved from purely verbal or hypothetical situation. He is aware of himself as a part of society, but only in a self-centered way. He bases his judgments on his concept of personal involvement. In choosing materials for this stage three learner, we look for those which present abstract concepts with high interest potential.

The high interest potential cannot be overlooked in the auditory learning experience. It seems as if Stage III learners consistently ask "What's in it for me?" If we understand that this is an appropriate question for this learner, we can better select materials and plan the auditory learning experience. Pre and post testing along with advance organizers are very appropriate for this level learner. They are quite capable of evaluating the learning experience for themselves.

### B. CHRONOLOGICAL AGE

Because we are dealing with in-school populations we have a lower limit of a 3 year old child. This child would fall into Stage I. Stage II has a lower limit of a 5 year old who may have a mental



age of 7. Stage III has a lower limit of a 9 year old who may have a mental age of 11. These lower age limits are provided to allow enough flexibility for all types of learners. We have not yet determined an upper chronological age limit.

### C. PERFORMANCE GRADE LEVEL

We believe it will be helpful to know the reading level of the student as it is a descriptor commonly used by commercial producers, teachers, and field-test evaluators to describe a child. Most children can be found to be functioning at a reading level at least one level below their potential reading level. (NOTE: potential reading level is often equated with listening comprehension level)

### D. SOCIAL AND EMOTIONAL DEVELOPMENT

In the above descriptions of various mental ages, we briefly discussed the social and emotional state of learners as it related to cognitive development. A Stage I learner is basically egocentric in thought and behavior. A Stage II learner interacts with others and is sociable in specific situations and with specific people. A Stage III learner, though capable of logical thought and aware of his membership in society, tends to base his involvement in experiences on ego-centered judgments. He is self-centered in terms of his reasoning and sees things "his" way.

We believe it is more important to include the social and emotional development of the learner in order to obtain a more complete "picture."





### AUDITORY INSTRUCTIONAL MATERIAL IDENTIFICATION INFORMATION

### BEST COPY AVAILABLE

I.	TITLE: Begins					
		(2) Series, title			To home his discountry of the distribution of the	(3
	Author(s) Jul	Lia K. Fenderson	(5)	Publication/Co	pyright date L973	(6
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	Ministra Area	<u>science</u>		Instructional I	evel primary/interm.	
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### AUDITORY LEARNING MATERIALS CATALOG OUESTIONNAIRE #1

### **INSTRUCTIONS:**

Please examine the attached sheet from a catalog of auditory learning materials.

If this sheet were to be altered to a half page, printed front and back, which items on the sample sheet would you prefer to have on the <u>front</u> of the sheet?

List the items to be put on the front of the sheet below:

 		<del></del>	
 <u> </u>	<u> </u>	•	
 ···			

Thank you!

### AUDITORY LEARNING MATERIALS CATALOG Questionnaire #2

### INSTRUCTIONS:

Please examine the four (4) sheets from catalogs of auditory learning materials, then answer the following questions: Which form would be most useful to you (information wise) in making a decision about the auditory learning material? la. (Check one) Form 1 \_\_\_\_ Form 3 \_\_\_\_ Form 2 \_\_\_\_ Form 4 \_\_\_\_ 1b. Why? Which form do you find the most convenient (format wise) in 2a. making a decision about the auditory learning material? (Check one) Form 1 \_\_\_ Form 3 Form 2 \_\_\_\_ Form 4 2Ь. Why?

Thank you!

## BEGIN. R'S BIRD BOX

Julia K. Fenderson University of Southern California

USE DATA

Primary grades Age level:

Intermediate grades Primary grades Interest

**:**-

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diffe

teristics of

birds

identification of ch.

eggs and silhouett

identification of bi

birds and their ca

· identification of

Objectives:

auditory memory

reading

requisite

Pre-

skills:

study of birds

science

Area of focus:

SUMMARY DESCRIPTION

c. 1973

identification of way

birds help ecology

\$12.95

COST

Intermediate grades φ Minimum CA:

level:

Minimum MA:

Individual Setting:

Group

10 minutes/lesson

10 lessons needed:

MATERIALS

picture cards 12

cassette

teacher guide

301

Educational Insights, 211 South Hindry Aven Inglewood, California

PRODUCER:

COMMENT

well illustrated

learner is instructed when to stop cassette and repeat a section

BEST COPY AVAILABLE

music and words for songs are included

adaptable

eas: to listen to and follow directions

objectives are clearly presented in teacher guide

Tire

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Ave., Inglewood, CA 90301 213 Erickson Hall Sichigan State University  Identification Symbol  Secondary visual  10 illustrated information card ional Level primary/interm.
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Beginner's Bird Box is designed as a resource of motivational aids in teaching music, art, of conservation and ecology related to the ment.

CONTENTS

-- Ten cards with pictures and information --Ten instructional objectives. about ten different birds.

-Ten songs with plano accompaniment about each bird (on pack of cards).

birds, their calls, and songs about the --One cassette with information about the birds.

-- One 16-page Teacher's Guide.

90301 Inc. Educational Insights, Inglewood, California 211 S. Hindry Avenue PRODUCER

DATE

1973

884

and how each bird is beneficial to the ecology.

The cassette and cards are adaptable to a wide

PROCEDURE

range of instructional methods. May be used

Primary input is audio cassette; visual input

Follow-up activities art

is secondary.

suggested.

by teacher in small group and individual set-

tings, or may be used by the child alone.

addition, students learn vital characteristics

of each bird, its nesting habits, its habitat,

The cassettes and cards contain information on

the sizes and shapes of ten common birds,

their songs, pictures, and silhouettes.

Length: 100 minutes (10 minutes per lesson).

INFORMATION EQUIPMENT

CONTENT

Cassette recorder required.

cassette and repeat if necessary. Very adaptable, easy to listen Instructions given to turn off to and follow directions. Well done. COMPENTS

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SOURCE

Michigan State University Great Lakes Region SEIMC Bast Lansing, Michigan 213 Erickson Hall

48824

PREREQUISITE

Intermediate Reading Level Auditory Memory

FOCUS AREA Science

Beginner's Bird Box

TITLE

MA/CA:6 Primary/Intermediate

RECOMMENDED FOR

BECTIVE

language, reading, science and various aspects general theme of birds in our natural environ-

BEST COPY AV 'LABLE

TITLE:

Beginner's Bird Box by Julia K. Fenderson

PUBLISHER:

Educational Insights, Inc.

211 S. Hindry Ave. Inglewood, CA 90301

PRICE:

\$12.95

DESCRIPTIVE

COMMENTS:

This series of 10 lessons of bird study (identification, their nests, habits, and calls) has been prepared to be utilized in a small group or with individuals. The teacher's guide presents objectives, methods for initiation, culmination activities, vocabulary, as well as a bibliography for both adults and children. All instructions for each lesson are presented on the tape.

Included in the guide are guidelines to the evaluation of successful completion

of the program. It may provide the basis for an instructional unit.

FOUIPMENT

**NEEDED:** 

cassette recorder

TIME

NEEDED:

10 minutes per lesson 10 lessons included

INTE:IDED

AUDIENCE:

primary and intermediate

interested adults

AREA OF

FOCUS:

Science - bird study

CONTENTS:

l cassette

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ERIC

### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Joordinator: Ted Ward

515--353-7836

March 12, 1974

### **MEMORANDUM**

TO:

Consortium members

FROM:

Joe Levine

SUBJECT: Catalog format questionnaire

Following our discussions at last week's Chicago meeting we have created (post haste) a number of re-configurations of Form #3. We have attempted to display the various groupings of information and picture in a variety of potentially appealing formats. Enclosed are collated sets of these forms with each set attached to a short questionnaire.

Ten copies are enclosed for your use in assessing the reactions of teachers. Would you please get ten (10) teachers to respond to this questionnaire within the next few days. Then, get the questionnaires back to us at Michigan State University for analysis. (You can tear off the questionnaire and return them without returning the sample pages.)

We would like to get the question of the catalog format resolved by the end of March! So, please get the completed questionnaires back quickly.

Thank you all for your contributions in making last weeks Consortium meeting an enjoyable and constructive session.





### QUESTIONNAIRE #3

Attached to this questionnai an instructional material. following questions.	re are <u>6</u> different catalog pages that describe Please look over these pages and answer the
If a catalog of instruct format do you feel should	tional materials were to be produced, which ld be used? (check only one)
Format #1	Format #4
Format #2	Pormat #5
Format #3	Format #6
Why do you like the form	mat that you selected?
	•
_	··
How useful would you fir	nd such a catalog?
extr	emely useful
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some	what useful
not	useful
Your occupation:	
coll	.ege student
spec	eial education teacher ea of handicar)
	lar education teacher
cons	ultant
admi	nistrator/supervisor



	RECOMMENDED FOR Primary/Intermediate MA/CA:6		Ten instructional objectives. Ten cards with pictures and information about ten different birds. Ten songs with piano accompani-	ot about each bird cards).	about the birds, their calls, and songs about the birds. One 16-page Teacher's Guide Cassette recorder required.	i	1973	\$12.95
	4		CONTENTS		EQUIPMENT	1	DATE	COST
	FOCUS AREA SCIENCE	is designed ivational sic, art, science and sonservation to the ds in our	tes and cards contain n on the sizes and ten common birds, s, pictures, and sil- In addition, students I characteristics of its nesting habits, it and how each bird	J Level	to listen tions. In- turn off if necessary.	! ! ! ! !	•	e ia 90301
	TITLE JER'S BIRD BOX	Beginner's Bird Box is designed as a resource of motivational aids in teaching music, art, language, reading, science and various aspects of conservation and ecology related to the general theme of birds in our natural environment.	The cassettes and cards contain information on the sizes and shapes of ten common birds, their songs, pictures, and silhouettes. In addition, student learn vital characteristics of each bird, its nesting habits, its habitat, and how each bird is beneficial to the ecology.	Auditory Memory Intermediate Reading Level	- F) AL		Educational Insight	211 S. Hindry Avenue Inglewood, California
ERIC ALGEBRA PROBLEMENT FROM	TIT	OBJECTIVE	CONTENT	PREREQUISITE SKILLS	COMMENTS	1	RODUCER	

	BOX
ų	BIRD
	NER'S
	BEGINNE

Science FOCUS AREA

Primary/Intermediate MA/CA: 6 INTENDED **AUDIENCE** 

PREREQUISITE

Intermediate reading level Auditory Memory SKILLS

--10 instructional objectives. --10 cards with pictures and CONTENTS

information about 10 different birds.

paniment about each bird (on --10 songs with piano accomback of cards).

about the birds, their calls, -- 1 cassette with information and songs about the birds.

-- 1 teachers guide

Cassette recorder required. **EQUIPMENT** 

10 minutes/lesson, 10 lessons

The cassette and cards are adaptable to a wide range of instruc-

PROCEDURE

TIME

child alone. Primary input in audio cassette; visual input is secondary. tional methods. May be used by teacher in smal' group and individual settings, or may be used by the Follow-up activities are suggested.

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Beginner's Bird Box is designed as a reand various aspects of conservation and ecology related to the general theme of source of motivational aid in teaching music, art, language, reading, science birds in our natural environment.

90301 Inglewood, California Educational Insights, 211 S. Hindry Avenue PRODUCER

1973 DATE \$12.95 COST

cassette and repeat if necessary. Very adaptable; easy to lister Instructions given to turn off to and follow directions. Well done. COMMENTS

Inc.

Educational Insights,

ROUCER

language, reading, science and various aspects general theme of birds in our natural environ-Beginner's Bird Box is designed as a resource of motivational aids in teaching music, art, of conservation and ecology related to the ment. **OBJECTIVE** 

ERIC

-- Ten cards with pictures and information --Ten instructional objectives. CONTENTS

-- Ten songs with plano accompaniment about each bird (on back of cards). about ten different birds.

-- One cassette with information about the birds, their calls, and songs about the birds.

--One 16-page Teacher's Guide.

Cassette recorder required. INTORMATION EQUIPMENT

Length: 100 minutes (10 minutes per lesson).

and how each bird is beneficial to the ecology. The cassettes and cards contain information on addition, students learn vital characteristics of each bird, its nesting habits, its habitat, the sizes and shapes of ten common birds, their songs, pictures, and silhouettes.

CONTENT

The cassette and cards are adaptable to a wide Primary input is audio cassette, visual input by teacher in small group and individual setrange of instructional methods. May be used tings, or may be used by the child alone.

PROCEDURE

Follow-up activities are is secondary. suggested.

Intermediate Reading Level Auditory Memory PREREQUISITE

cassette and repeat if necessary. Instructions given to turn off Very adaptable; easy to listen to and follow directions. Inglewood, California 211 S. Hindry Avenue \$12.95 1973 COMMENTS RH

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Michigan State University Great Lakes Region SEIMC 213 Erickson Hall

Well done.

48824

East Lansing, Michigan

TITLE

RECOMMENDED FOR

FOCUS AREA Science

Beginner's Bird Box

Primary/Intermediate MA/CA:6

### BEGINNER'S BIRD BOX TITLE

ERIC

### OBJECTIVE

language, reading, science and various aspects general theme of birds in our natural environ-Beginner's Bird Box is designed as a resource of motivational aids in teaching music, art, of conservation and ecology related to the ment.

CONTENTS

information about ten different -- Ten instructional objectives. --Ten cards with pictures and birds.

ment about each bird (on back of -- Ten songs with piano accompanicards).

-- One cassette with information about the birds, their calls, -- One 16-page Teacher's Guide. and songs about the birds.

CONTENT

of each bird, its nesting habits, its habita;, and how each bird is bene-In addition, tures, and silhouettes. In addition, students learn vital characteristics formation on the sizes and shapes of ten common birds, their songs, pic-The cassettes and cards contain inficial to the ecology.

**EQUIPMENT** 

Cassette recorder required

Science **FOCUS AREA**  Primary/Intermediate MA/CA: INTENDED AUDIENCE

Intermediate reading level Auditory Memory **PREREQUISITE** SKILLS

Inc Educational Insights, PRODUCER

90301 Inglewood, California 211 S. Hindry Avenue

1973

DATE

\$12.95 COST

COMMENTS

Very adaptable; easy to listen Instructions given to turn off cassette and repeat if necesto and follow directions.

ary. Well done.

TITLE

3EGINNER'S BIRD BOX
by Julia K. Fenderson

AREA OF FOCUS
SCIENCE

INTENDED AUDIENCE PRIMARY/INTERMEDIATE MA/CA:6

OBJECT I VE

Beginner's Bird Box is designed as a resource of motivational aids in teaching music, art, language, reading, science and various aspects of conservation and ecology related to the general theme of birds in our natural environment.

**CONTENTS** 

-- Ten instructional objectives.

-- Ten cards with pictures and information about ten different birds.

-- Ten songs with piano accompaniment about each bird (on back of cards).

-- One cassette with information about the birds, their calls, and songs about the birds.

-- One 16-page Teacher's Guide.

**EQUIPMENT** 

Cassette recorder required.

TIME

10 minutes per lesson, 10 lessons included

**PROCEDURE** 

The cassette and cards are adaptable to a wide range of instructional methods. May be used by teacher in small group and individual settings, or may be used by the child alone. Primary input is audio cassette; visual input is secondary. Follow-up activities are suggested.

COMMENTS

Very adaptable; easy to listen to and follow directions. Instructions are given to turn off cassette and repeat if necessary. Well done.

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PRODUCER

Educational Insights, Inc. 211 S. Hindry Avenue

Inglewood, California 90301

**DATE** 1973

LOCAL SOURCE Great Lakes Region SEIMC 213 Erickson Hall Michigan State University East Lansing, Michigan 48824 COST \$12.95

6

TITLE

Beginner's Bird Box

by Julia K. Fenderson

FOCUS AREA

RECOMMENDED FOR Primary/Intermediate MA/CA:6

### USE DATA

Setting:

Individual

Group

Time

10 minutes/lesson

needed:

10 lessons

Equipment

Cassette recorded

needed:

required

### MATERIALS

12 picture cards

l cassette

l teacher quide

### SUMMARY DESCRIPTION

Prerequisite Auditory memory Intermediate

skills:

reading level

### Objectives:

- --identification of 8 or 10 birds and their calls
- --identification of bird eggs and silhouettes
- --identification of characteristics of different birds
- --identification of ways birds help ecology

### COMMENT

- --well illustrated
- --music and words for songs are included
- --adaptable
- --easy to listen to and follow directions
- --learner is instructed when to stop cassette and repeat a section
- --objectives are clearly presented in teacher guide

### PRODUCER

Educational Insights, Inc. 211 South Hindry Avenue Inglewood, California 90301

### DATE

1973

### COST

\$12.95

### LOCAL SOURCE

Great Lakes Region SEIMC 213 Erickson Hall Michigan State University East Lansing, Michigan 48824

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### SECTION SIX

### AUDITORY LEARNING MONOGRAPH SERIES

In a response to the Consortium's call for papers
to increase the scholarly base of information on auditory
learning, seven monographs were published and distributed
to Network members. The monographs are as follows:

- 1. AN EXAMINATION OF LISTENING RATE, S. Joseph Levine
- 2. AUDITORY HIGHLIGHTING AS A STRATEGY FOR IMPROVING LISTENING COMPREHENSION, James W. Fleming
- 3. AUDITORY LEARNERS AND COMPREHENSION OF RATE-ALTERED RECORDINGS, David C. Broski
- 4. AUDITORY LEARNING: SOME OBSERVATIONS, Nancy A. Carlson
- 5. BRIDGING THE GAP BETWEEN MATERIALS AND LEARNERS: MAXIMIZING AUDITORY INSTRUCTION, Nancy A. Carlson, Cynthia A. Lafkas, S. Joseph Levine
- 6. EFFECT OF AN ORAL ADVANCE ORGANIZER ON THE LEARNING AND RETENTION OF EMR ADOLESCENTS, A. Edward Blackhurst
- 7. EMERGING AUDITORY DELIVERY SYSTEMS: IMPLICATIONS FOR INSTRUCTING HANDICAPPED CHILDREN, William A. Anderson

### SECTION SEVEN

### OTHER PRODUCTS

In addition to the catalog of auditory learning materials and the monograph series, there were three other products prepared for and distributed to Consortium members. These products were an attempt to increase the utilization of auditory learning materials by providing special educators with additional information about the location and selection of materials.

The products are:

The Catalog of Listening Skills Materials for Visually Impaired Students

Media References for Auditory Learning Materials

Auditory Learning Materials Available From Educational Radio Stations

### BEST COPY AVAILABLE

LISTENING SKILLS MATERIALS

FOR

VISUALLY IMPAIRED STUDENTS

Office of the Superintendent of Public Instruction

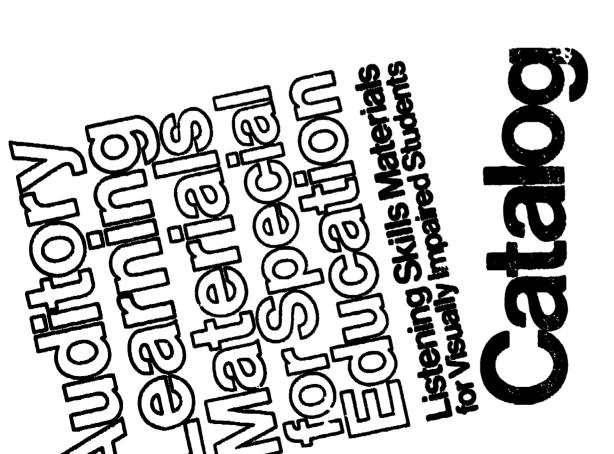
State of Illinois

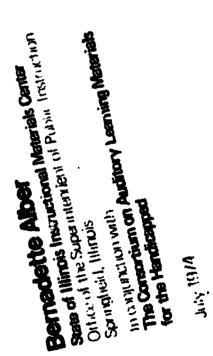
in conjunction with The Consortium on Auditory Learning Materials for the Handicapped

062679-1564 (607) and #0EG-3-6-C62377-1557

(607)

Funded in part by the Bureau of Filmation for the Handicapped under Grant #0EG-3-6-







### ERIC Full Tast Provided by ERIC

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# Table of Contents

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Acknowledgements	Introduction	The Functional Areas of Auditory Training	Auditory Reception	Auditory Discrimination	Auditory Memory	Auditory Sequential Memory	Grammatic Closure	Auditory Association	Anditory Comprehension

## ACKNOWLEDGEMENTS

The Instructional Materials Center, Office of the Superintendent of Public Instruction, State of Illinois, in conjunction with the Comsortium on Auditory Learning Materials for the Handicapped, commissioned a committee of educators for the v'sually impaired to determine what products, if any, were available on the commercial market and could be used effectively with visually impaired children. Catalogs were perused and, through a series of working sessions, the committee members systematically evaluated actual materials which had been previously identified in the catalog as having possible mentit.

During the final evaluation only those items which measured up to previously determined criteria were selected for inclusion in this manual. The concensus of the working groups was that the items listed could either be used as manufactured or with a minimal amount of modification, such as, transcribing the answer sheets into braille or large type. Many items were excluded from the listing because they relied too heavily on visual input or it was felt the necessary adaptations would be too complex.

The members of the committee were concerned about the extremely limited number of items which could be used effectively with the visually impaired. In certain functional areas almost nothing was available (i.e., grammatic closure).

It was the recommendation of the committee that work be continued to allow for the development of materials designed for use by the visually impaired, materials which require minimal visual input and rely primarily on auditory stimulus.

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Members of the Committee are as Follows:

Fay Leach, American Printing House for the Blind, Louisville, Kentucky

Bernadette Alber, Teacher of the Visually Impaired and Learning Disabled, Evanston Township High School, Evanston, Illinois

Marilyn Bower, Teacher of the Visually Impaired and Learning Disabled, PAEC, Maywood, Illinois

Dorothy Ferry, Teacher of the Visually Impaired, Illinois Braille and Sight Saving School, Jacksonville, Illinois

Alphonsine Fleming, Teacher of the Visually Impaired, Illinois Visually Handicapped Institute, Chicago, Illinois

Franklin Green, Teacher of the Visually Impaired, Illinois Visually Handicapped Institute, Chicago, Illinois Vicki Green, Teacher of the Visually Impaired, Dearborn Heights, Oak Lawn, Illinois

Liz Hain, Coordinator of Special Education, Tazewell-Mason Counties Special Education Association, Pekin, Illinois

Dr. Lawrence Hapeman, Instructor of Teacher Training, Northern Illinois University, DeKalb, Illinois

:

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- William Kaufmann, Auditory Specialist, Illinois Braille and Sight Saving School, Jacksonville, Illinois
- Ruth Kearns, Teacher of the Visually Impaired, Centennial High School, Champaign, Illinois
- Joan Lubera, Auditory Specialist, SLIDES, Park Ridge, Illinois
- Guy Mahan, Director of Special Education, Franklin Park, Illinois
- Dan Pietrini, Principal, West School, Franklin Park, Illinois
- Janet Pritchert, Teacher of the Visually Impaired, Eastview Elementary School, Algonquin, Illinois
- Paul Reinert, Supervisor of the Visually Impaired, East Central Region, Decatur, Illinois
- Meg Staahl, Hadley School for the Blind, Winnetka, Illinois
- Maryllan Sulta, Auditory Specialist, S.M.A., Harvey, Illinois
- Charles Taskerud, Vision Consultant, Title VI B-E.S.E.A., Moline, Illinois

- Ronald Texley, Supervisor of Rehabilitation and Education, University of Illinois Rehabilitation and Education Center, Champaign, Illinois
- Bonnie Trowbridge, Teacher of the Visually Impaired, Douglas School, Pekin, Illinois

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- Phil Vedovatti, Education Coordinator, West Suburban Association, Lombard, Illinois
- Jane Wahl, Teacher of the Visually Impaired, Sunset Ridge School, Northfield, Illinois
- Ellen Zabel, Supervisor of Library, Hild Library, Chicago, Lilinois
- Jerry Baginski, Education Specialist, Instructional Materials Center, Franklin Park, Illinois
- Corinne Cloppas, Vision Consultant, Department of Public Health, Franklin Park, Illinois
- Jackie Crain, Assistant Director, Instructional Materials Center, Springfield, Illinois
- Bobbie Cheaney, Educational Specialist, Instructional Materials Center. Springfield, Illinois
- Jan Tanner, Educational Specialist, Instructional Materials Center, Springfield, Illinois

## Introduction

The auditory channel is one of the primary modalities of learning for visually impaired students. Therefore, it cannot be assumed that critical listening skills will develop automatically as the child grows. They need to be taught in an orderly, sequential fashion beginning with basic, auditory receptive skills and progressing to cognitive skills and abstract reasoning.

By the time the student is ready to enter high school, these skills should be welldeveloped, useful tools which can be utilized for gaining new information, insights and understandings. If it is determined that a student in elementary school has difficulty understanding what he hears, then training programs which provide opportunities to develop deficit areas in an organized, systematic manner should be established.

A functional approach to analyzing the student's skill is the most effective for it provides an opportunity to critically assess his abilities. This approach does not assume that skills are established because the child has reached a specific chronological age; rather it determines the auditory level at which the child is operating and provides a basis for planning an individualized program which will be effective for the student.

In their book, Auditory Training, Kathleen Eden, Jean Green, and Janice Hansen describe the functional abilities as follows:

## T. AUDITORY RECEPTION

Auditory reception involves the ability to derive meaning from what is heard whether it concerns specific sound: , conversation, or other verbally prosented material. Examples of auditory reception would include such things

- and turning in the direction that sound.
- ... Hearing a siren when you are driving and responding by pulling over to the side of the road.
- reception involves the ability to understand and respond to such questions as Do clocks yawn? The child's answer, either yes or no, would indicate whether he could derive meaning from the verbally presented material.

A child with an auditory reception problem may have some of the following characteristics:

- grasp more than simple short directions although he seems to be normally intelligent in other areas.
  - other areas.
    ...This type of child does not care for word games or games which require response to verbal directions.

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strations are used. He requires more visual aids to supplement ... The child understands stories pictures, diagrams, or demonand instructions better if get their feelings hurt. verbal directions.

## AUDITORY DISCRIMINATION II.

Auditory discrimination is the ability to hear likenesses and differences between sounds. It would include such things as:

and high and low keys being played soft sounds, differences in pitch, auditory discrimination activity.) auditory discrimination activity.) (This would be considered a gross would be considered to be a fine between the sound of "f" and the a glass being filled with water. ... Being able to identify loud and sound of "t". (This similarly between a car horn honking and ... Identifying the differences ... Identifying the differences on a plano.

A child who has difficulty in this area may:

... Have difficulty learning the

sounds associated with letters of the alphabet.

... Confuse words which sound similar, i.e., govrd for Lord, or singer for stin, .r.

... Will often guess at unfamiliar words due to poor phonetic abilities.

... Have poor word attack skills.

### AUDITORY MEMORY III.

remember things that have been heard. Auditory memory is the ability to It can be divided into two subcategories.

- was read a week or a month ago. Long term memory, i.e., being able to recall a story that 7
- Short term memorry, 1.e., being that were just given to the able to repeat instructions class.

auditory memory problems would include: Characteristics of children with

so they watch the other children repeating words or a sentence. simple classroom instructions, ... It may be difficult to follow ... The child may have difficulty supposed to be doing, or they for clues as to what they're watch the teacher's gestures quite closely for additional

## /. GRAMMATIC CLOSURE

Grammatic closure refers to the

visual clues.
...The child may have difficulty remembering the names of the letters of the alphabet and their sounds.

# V. AUDITORY SEQUENTIAL MEMORY

Auditory sequential memory is the process involving memory, in a given order of something the child has neard. Examples of this skill would involve:

- ... Being able to repeat a list of words or numbers in the same sequence it was given.
  ... Retelling a story and being able to put the details in
- the proper order.

  A child with difficulties in this area may show some of the following characteristics:
- of the week or months of the year in proper sequence.
  - ... Mispronounce words, i.e., emeny for enemy, and aminal for animal.
- ... Inability to follow a sequence of commands, such as, "Take out your math book".

language situations in a

logical manner.

ability to detect what particular word or phrase is being sought when only part of the word or part of the phrase is spoken. Examples of grammatic closure would include such things as:

- ... Supplying the missing word to an incomplete phrase such as, sugar and ..... (spice).
  - ...Completing a word when only the first part of the word is given such as, teleph ......(telephone).
- ... Using sound blending techniques to phonetically sound out words such as, c-a-t for cat.

A child who has difficulty in this area may:

- ... Have trouble learning plurals and past tenses and irregular forms of verbs.
  - ...Mispronounce words he has heard many times such as pasgetti for spaghetti.
- ... Put the parts of the sentences together incorrectly such as, Jumped on me the dog, instead of, The dog jumped on me.
- creating spoonerisms such as, Jose can you see by the dawn's early light, instead of, Oh say, can you see by the dawn's early light.

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## VI. AUDITORY ASSOCIATION

Auditory association refers to the ability to relate to spoken words in a meaningful way. An example of auditory association would include:

- the missing and supplying the missing word in this incomplete statement: sugar is sweet: lemon is ......
  - ... Answering questions like:
    What sound do you make when you cough?
    - ...Classifying objects into groups such as, peaches, pears, and apples are all fruit.

Children with auditory association difficulties may:

- ... Have difficulty relating concepts to each other such as, How are a car and a truck alike?
- ... Have difficulty learning to classify and categorize concepts such as, Is a peach a fruit or a vegetable?

## 711. AUDITORY COMPREHENSION

Listening comprehension refers to the ability to bring together and integrate all previous learned listening skills to a level where the student is able to bring

meaning to a lengthy passage through the utilization of cognitive skills. ... Is the student able to answer questions involving how and why questions?

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- ... Is the student able to see relationships and draw conclusions?
- abstract relationship:
  - ... Is the student able to theorize on attitudes and relationships?

## Is the student unable to:

- ... Understand relationships between characters or ideas?
- ...Understand the why or the how which motivates actions and/or thoughts?
  - ...Understand the motivations behind the actions of the characters?

When a deficit in any of these areas is identified, instruction should begin. Each skill is built upon the one preceeding it, so each one should be well-developed before the next is approached.

The final skill, auditory comprehension, is the ability to utilize all the previous learnings. When the student is able to bring

The Functional Areas

of Auditory Training

A Bibliography of Materials

for Use with the Visually Impaired

Lauditory Training, Kathleen Eden, Jean Green, Janice Hansen, Iowa State Department of Public Instruction and University of Iowa, 1972, pp. 3-6.

### ERIC

### AUDITORY RECEPTION

TITLE: Auditory Perception Training - Motor

 $\infty$ GRADE: 6 to

MEDIA: Tape

PRE-REQUISITE SKILLS: Auditory Acuity

LENGTH OF LESSONS: 10 minutes TEACHER'S MANUAL: Yes

Individual or Small Group SETTING:

on the tape. He indicates his understanding up activities are included in the teacher's manual. The consumable dittoes need to be in sequential manner, which do not have to transcribed into the appropriate media for by marking his response sheet as directed. No follow-The child listens to directions presented There are multiple activities, presented be supervised by the teacher. the visually impaired.

3505 North Ashland Ave. Learning Materials Chicago, Illinois SOURCE: Developmental

COST AS OF JUNE, 1974: \$74.00

### AUDITORY RECEPTION

Sound and Fancy

TITLE:

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GRADE: Kgn. to 3

MEDIA: Records,

Tapes, Cassettes

PRE-REQUISITE SKILLS: General Readiness

TEACHER'S MANUAL: Yes

SETTING: Individual or Small Group

teacher directs the instructional activities The activities present a number of auditory development of beginning readiness skills. experiences which the child is to identify and associate with previous learning. The materials used are common, everyday sounds as well as the follow-up activities which The are suggested in the pamphlet. The item This aid utilizes listening games in the which are familiar to all children. does need modification for use with visually impaired children.

Cassettes Unlimited SOURCE: Wilson Educational Roanoke, Texas Recordings

Cassettes \$15.80 Records \$11.90 COST AS OF JUNE, 1974: Tapes \$15.80

### AUDITORY DISCRIMINATION

TITLE: Happy Time Listening

GRADE: Kgn. to 3

MEDIA: Record

PRE-REQUISITE SKILLS: Auditory Reception

LENGIH OF LESSONS: 12 minutes TEACHER'S MANUAL: Yes

Individual or Group SETTING:

help the students through demonstration or so the children will be familiar with the balance, coordination and number concepts participation. Areas such as body image, The child is given a verbal input and is are utilized. It is suggested that the body manipulation. The device consists material. She should also be able to teacher play the record through once expected to respond through active of five lessons and can be used as manufactured.

Activities SOURCE: Educational

Box 392

11520 Freeport, New York,

COST AS OF JUNE, 1974: \$6.25

# TITLE: Sound Skills, Albums 1 &

AUDITORY DISCRIMINATION

GRADE: 3 to 5

MEDIA: Records

PRE-REQUISITE SKILLS; Auditory Reception

TEACHER'S MANUAL: Yes

LENGTH OF LESSONS: 6 minutes

Individual or Group SETTING:

development of phonics with particular older child with specific word attack disabilities. The student listens to emphasis placed on the recognition of These materials are designed for the activity is teacher directed for she child. The main emphasis is on the sounds and then repeats them. The must monitor the responses of the beginning word sounds.

BEST COPY AVAILABLE

COST AS OF JUNE, 1974; \$4.98 each

Great Meck,

New York

Materials

93 Myrtle Drive

SOURCE: Classroom

### AUDITORY DISCRIMINATION

2810 - Auditory Figure-Ground Set Auditory - Perception Program TITLE:

00 GRADE: 6 to

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MEDIA: Tape

PRE-REQUISITE SKILLS: Auditory Acuity

SETTING: Individual or Small Group LENGIH OF LESSONS: 10 minutes TEACHER'S MANUAL: Yes

teacher. The device is well-constructed and durable. The response sheets, which distinguish foreground sounds. He marks background sounds increase as the tasks does not have to be supervised by the The activity is presented in a sequential pattern become more difficult. The material and is useful in teaching the purhave to be adapted into braille or his response on the answer sheet. The child listens to the tapes to large print, are consumable. ported auditory skills.

984 Livernois Road / Corp. of America Troy, Michigan SOURCE: Educational

COST AS OF JUNE, 1974: \$42.50

## AUDITORY DISCRIMINATION

2820 - Auditory Discrimination Set Auditory - Perception Program TITLE:

e to GRADE:

œ EDIA:

PRE-REQUISITE SKILLS: Auditory Acuity

SETTING: Individual or Small Group LENGTH OF LESSONS: 10 minutes **TEACHER'S MANUAL: Yes** 

expected to mark the picture which begins sequential lessons which may be completed The dittoes need to be darkened for the with the sound. The demands begin with A sound is presented and the student is gross differences and progress to finer partially seeing. More extensive modteacher's supervision. The tapes are ification is required for the braille well-prepared and the acuity is good. by the students independently of the discrimination. There are multiple,

984 Livernois Road SOURCE: Educational Corp. Troy, Michigan of America

COST AS OF JUNE, 1974: \$42.50

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### AUDITORY DISCRIMINATION

Exploring Sound and Grouping ERIC

GRADE: Kgn. to 3

MEDIA: Cassette or

Record

PRE-REQUISITE SKILLS: Auditory Reception

TEACHER'S MANUAL: NO

SETTING: Individual or Group

sounds which he hears. The teacher directed mathematical concepts. They are effective cojectives are achieved through requiring The item is designed to teach the primary in teaching the purported skills and can activities utilize concrete language and the child to listen, identify and group be used with the visually impaired as age child concepts of grouping. developed.

and Training Products 1345 Diversey Parkway Singer Educational Chicago, Illinois 60614 SOURCE:

Cassettes \$15.80 COST AS OF JUNE, 1974:

Records \$11.90

TITIE: I Heard It with My Own Two Ears

AUDITORY DISCRIMINATION

GRADE: Kgn. to 3

MEDIA: Cassettes

or Tapes

PRE-REQUISITE SKILLS: General Auditory Reception

TEACHER'S MANUAL: Yes

Individual or Small Group SETTING:

keener listening skills. There are suggested develop auditory discrimination and creative follow-up activities which are given in the These enrichment materials are designed to 88 oral and written expression. The teacher are strictly geared to the development of directed activities require the child to identify sounds from his environment and teacher's manual. No adaptations for visually impaired students are required there are no workbooks or ditto sheets

310 North Avenue Spoken Arts SOURCE:

included.

New York 10801 New Rochelle,

COST AS OF JUNE, 1974: \$125.00 for 12

lessons or

\$11.50 each

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### ERIC

### AUDITORY MEMORY

Countdown for Listening TITLE:

GRADE: Kgn. to

MEDIA: Records

PRE-REQUISITE SKILLS: Auditory Reception

LENGTH OF LESSONS: 7 1/2 minutes SETTING: Individual or Group FEACHER'S MANUAL: Yes

The sequentially presented material on the directed by the teacher to listen to the story and then answer questions. There well as follow-up activities suggested in the teacher's manual. The stories are interesting and deal with several sequential pattern and can be used as curricular areas such as reading and are twenty-four separate lessons as communication skills. The child is 6 records is designed to encourage science. The material follows a manufactured.

Freeport, New York Activities, Inc. SOURCE: Educational Box 392

COST AS OF JUNE, 1974: \$29.95

## AUDITORY SEQUENTIAL MEMORY

World of Sound TITLE:

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Kgn. to 3 GRADE:

2 Records, or 4 Tapes, or MEDIA:

2 Cassettes

Memory PRE-REQUISITE SKILLS: Auditory

Individual or Small Group LENGTH OF LESSONS: 20 minutes TEACHER'S MANUAL: Yes

SETTING:

The examples used are good, the activities the student's ability to organize communi-The materials can be used as manufactured. ground of the child is often called upon. The objectives of this aid are to improve cation. The teacher directed activities listening and attention span and broaden follow a sequentially developed pattern. interesting, and the experiential back-

Roanoke, Texas 76262 SOURCE: H. Wilson Educational Cassettes Unlimited Recordings

Cassettes \$15.80 Records \$11.90 COST AS OF JUNE, 1974: Tapes \$15.80

## AUDITORY SEQUENTIAL MEMORY

ERIC

And the Beat Goes on for Physical Education TITLE:

GRADE: 6 to 8

MEDIA: Records

PRE-REQUISITE SKILLS: Ability to Follow Directions

LENGIH OF LESSONS: 2 to 3 minutes TEACHER'S MANUAL: Yes

Individual or Group

SETTING:

activities can be performed in a classroom, The 24 lessons are teacher directed. The No additional materials sequential memory. The student indicates are required as the student indicates his movements following auditory instruction. education classes, are useful in training These two records, designed for physical marking a sheet. This activity requires response through movement rather than his skill by performing the series of active participation and the musical accompaniment is stimulating. gym or playroom.

SOURCE: Educational

Activities Box 392 Freeport, New York

COST AS OF JUNE, 1974: \$12.00

# TITLE: The Living History Book

AUDITORY SEQUENTIAL MEMORY

CRADE: 4 to 9

MEDIA: Cassette

or Tape

PRE-REQUISITE SKILLS: Developed Vocabulary

and Reading Skills

TRACHER'S MANUAL: Yes LENGTH OF LESSONS: 20 minutes

Individual or Group SELLING:

follow-up activities suggested in the manual. Highlights of american history are presented must recall in sequential order what he has introduce the material and then direct the adaptation is transcribing the 35 exercise presentation for it is presented at a high booklets in the appropriate reading media in a news broadcast format. The student The material should be screened before booklets. The teacher is required to ocabulary level. The only required heard and then complete the exercise for the visually impaired students. SOURCE: Imperial International

Learning Corporation

Kankakee, Illinois Box 548

COST AS OF JUNE, 1974: \$159.00

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## AUDITORY SEQUENTIAL MEMORY

ERIC

Developing Auditory Awareness and Insight TITLE: Perceptual Communication Skills Program:

GRADE: 4 to 6 MEDIA: Tapes

PRE-REQUISITE SKILLS: Auditory Discrimination

SETTING: Individual or Group TEACHER'S MANUAL:

oriented lessons are presented in a sequential The student is directed to listen to the tape is very good for the development of auditory of the teacher's supervision. The material has to be transcribed into the appropriate are marked in his workbook. The language manner and can be completed independently The workbook and then perform the activity. Responses awareness and can be easily used with visually impaired students.

COST AS OF JUNE, 1974: \$130.00 90025 Materials and Distributors Califernia Los Angeles, SOURCE: Instructional Equipment

### GRAMMATIC CLOSURE

TITLE: Listening Your Way to Better English

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GRADE: 6 to 8

MEDIA: Cassettes

PRE-REQUISITE SKILLS: Adequate Auditory Acuity

TEACHER'S MANUAL: No

LENGTH OF LESSONS: 10 to 20 minutes

SETTING: Individual or Small Group

effective utilization of language skills. exercises emphasize basic English grammar The student listens to the tape and then The material can be follows the previous one in a sequential and its correct usage in the development This device is designed to develop more manner. There are suggested follow-up completes the self-contained lessons. Each lesson is a single activity and activities which can be done. The used as manufactured. of language skills.

Raleigh, North Educational Materials SOURCE: Associated Box 2087

Carolina 27602 COST AS OF JUNE, 1974: \$100.90

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Sentence Sense TITLE:

GRADE: 6 to 8

MEDIA: Cassettes

PRE-REQUISITE SKILLS: Auditory Discrimination

and Memory

LENGTH OF LESSONS: 20 minutes TEACHER'S MANUAL: No

SETTING: Individual or Group

basic sentence concepts. The student listens discussion along these lines. The discussion teacher can highlight information the student library skills and great sea stories are not should listen for and then direct follow-up recommended for the development of auditory sequential manner but requires a great deal questions will need to be developed by the to the tape and then discusses what he has effective. The sections on study skills, teacher. The material is presented in a of work on the part of the teacher to be The objective of this item is to devriup heard. To heighten effectiveness, the association skills.

994 Livernois Road SOURCE: Educational Corp. Iroy, Michigan of America

COST AS OF JUNE, 1974:

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AIDITORY ASSOCIATION

TITLE: Building Verbal Power in the Upper Grades

GRADE: 4 to

MEDIA: Records

PRE-REQUISITE SKILLS: Basic Language Concepts

TEACHER'S MANUAL: Yes

LENGIH OF LESSONS: 5 minutes

SEITING: Individual or Group

separate lessons which the teacher supervises, directed toward the development of language facility, logical and categorical thinking, The item can be used as manufactured as all a sheet of paper. The material deals with The student listens to one of the records and she monitors the student's responses. of the input is auditorily presented and synonyms, antonyms and analogies and is give his answer verbally or write it on and responds to the questions. He may and verbal reasoning. There are 25 the responses are verbal. SOURCE: Classroom Material Co. Great Neck, New York 93 Myrtle Drive

COST AS OF JUNE, 1974:

\$15.75 per set

### AUDITORY ASSOCIATION

We Listen and Learn TITLE: GRADE: 1 to 4

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MEDIA: Cassettes,

Tapes, Records

PRE-REQUISITE SKILLS: Readiness in Motor Activities

TEACHER'S MANUAL: Yes

SETTING: Individual or Small Group

The small child is encouraged to respond activities presented. The lessons are teacher supervised to insure that the student understands the movements he motorically to the songs, games and used as manufactured as there is no presented and the cassettes can be is to make. The skills are wellreading requirement. SOURCE: Wilson Educational Recordings

Cassettes Unlimited Roanoke, Texas 76262

COST AS OF JUNE, 1974: Records \$17.50 Tapes \$23.50

Cassettes \$23.50

### AUDITORY ASSOCIATION

Stories in Sound

TITLE:

GRADE: Kgn. to

MEDIA: Record

PRE-REQUISITE SKILLS: None

TEACHER'S MANUAL: NO

Individual or Group SETTING:

used as manufactured and is useful in the development of basic auditory association through auditory input. The child plays Basic environmental sounds are presented the record and listens to stories that are told with sounds. The aid can be skills. SOURCE: Children's Music Center

Los Angeles, California 5373 West Pico Blvd. 90019

COST AS OF JUNE, 1974: \$1.98

### AUDITORY COMPREHENSION

Listening Improvement Series -Listening Progress Laboratory ERICE

4 to 9 GRADE:

MEDIA: Cassette

the Ability to Match Tones PRE-REQUISITE SKILLS: Language Development and

FEACHER'S MANUAL: Yes

SETTING: Individual or Group

sheets need to be prepared in the appropriate teach basic and cognitive listening skills. Different cassettes in the series emphasize This series of 20 cassettes is designed to discrimination, 5 and 6 with memory). The completed by the student independently of different saills (i.e. 4 and 5 deal with media for the visually impaired student, supervision by the teacher. The answer sequentially presented material can be

Tulsa, Oklahoma 74145 SOURCE: Educational Progress 8535 East 41 Street Corporation

COST AS OF JUNE, 1974: \$140.00

## AUDITORY COMPREHENSION

TITLE: Developing - L.T.R. (Listen, Think, React)

GRADE: 7 to 8

MEDIA: Cassettes

PRE-REQUISITE SKILLS: Auditory Memory and Association

TEACHER'S MANUAL: Yes

LENGTH OF LESSONS: 20 minutes

SETTING: Individual or Small Group

at an advanced level, stimulate an interest These language oriented tapes, presented lesson. The Item is designed to develop tape presents a single, teacher directed in words and increase vocabulary. Each the listening skills of the junior high school student and can be used as manufactured.

BEST COPY AVAILABLE

Cassettes Unlimited SOURCE: Wilson Educational Recordings

76262 Roanoke, Texas

COST AS OF JUNE, 1974; Approx. \$11.90 records \$15.80 Tapes

### AUDITORY COMPREHENSION

ERIC

TITLE: Voices of Our Times

6 to 8 & above Cassettes or GRADE: MEDIA:

Records

PRE-REQUISITY SKILLS: Auditory Association

and General Maturity TEACHER'S MANUAL: Yes

LENGIH OF LESSONS: 30 minutes listening time SETTING: Individual or Group

item consists of four lessons. It is presented The major objective of this item is to increase express ideas. The lessons are more meaningful and are motivational for student action. This of higher cognitive skills. The material can when accompanied by the follow-up activities social awareness through listening to others auditory comprehension skills on the part of the student and is useful in the development at a high level, assuming some developed be used as manufactured.

COPY ANALLABLE

Singer Educational SOURCE:

1345 Diversey Parkway Chicago, Illinois

and Training Products

Cassettes \$15.50 Records \$11.50 COST AS OF JUNE, 1974:

### AUDITORY COMPREHENSION

TITLE: Listen and Read

MEDIA: Cassettes 7 to 12 GRADE:

PRE-REQUISITE SKILLS: General Reading and

Vocabulary

TEACHER'S MANUAL: Yes

60 minutes LENGTH OF LESSONS:

SETTING: Individual or Group

The fifteen individual lessons of this aid the development of the purprited skills. reading skills. The student listens to the tapes and then marks his responses sequential pattern and is effective in in the workbook provided. The teacher The workbooks need to be adapted in a are designed to develop listening and directs the activity and checks the workbooks. The material follows a media appropriate for the visually Impaired.

Educational SOURCE:

Laboratories **Development** 

27 North Gore

Webster Grove,

COST AS OF JUNE, 1974: 15 Cassettes \$107.50 Missouri

Lesson Books \$1.35

Fearmers Cuide \$1.00

Listen and Think Adapted Program TITLE:

GRADE: 1 to 9

MEDIA: Tape

PRE-REQUISITE SKILLS: This depends upon the level of materials chosen

TEACHER'S MANUAL: Yes

LENGIH OF LESSONS: 20 tc 25 minutes

SETTING: Individual or Group

of reading readiness and language development, ently by the students and their answers are basic listening and thinking skills. There sequential pattern and deals with the areas impaired students by the American Printing House for the Blind, are designed to teach are 15 lessons at each of the nine levels. The activities can be undertaken independrecorded on the sheets which accompany These materials, adapted for visually the tapes. The material follows a

1839 Frankfort Avenue House for the Blind Louisville, Kentucky SOURCE: American Printing

COST AS OF JUNE, 1974:

BEST COPY AVAILABLE

TITLE: Computapes, (Module 6), Decimals and Percents

AUDITORY COMPREHENSION

GRADE: 6 to 8

MEDIA: Cassette

PRE-REQUISITE SKILLS: Auditory Sequential Memory

Basic Mathematics Concepts

FEACHER'S MANUAL: Yes

LENGIH OF LESSONS: 10 to 20 minutes long

SETTING: Individual or Group

recommended for the partially seeing rather arithmetic skills and teaching mathematical concepts. The teacher directed activities Computapes are useful in reinforcing basic sequential order. The student listens to the tapes and marks his responses in the workbook or on ditto sheets. There are some visual demands so this device is are individual lessons designed in than the blind.

T 0 9

1140

Science Research SOURCE:

Association

259 East Erie St.

Chicago, Illinois

COST AS OF JUNE, 1974: \$60.00

33

### CONSORTIUM ON AUDITORY LEARNING MATERIALS FOR THE HANDICAPPED

213 Erickson Hall Michigan State University East Lansing, Michigan 48824

ordinator: Ted Ward

515-353-7838

### MEDIA REFERENCES FOR AUDITORY LEARNING MATERIALS

Compiled by WILLIAM ANDERSON

The following list of references and source directories is designed to assist teachers, administrators and specialists in locating large numbers of existing auditory learning materials. The listing has been divided into two groups: Group I, a list of basic references and directories; and Group II, a more specialized and supplemental listing of references and directories.

It should be noted that the prices given may have been changed by the publisher/distributor without notice.



### GROUP I

BLUE BOOK OF AUDIOVISUAL MATERIALS, 48th edition, Educational Screen and Audiovisual Guide, 434 South Wabash Avenue, Chicago, Illinois, 60605. 1973. 60 pages. \$2.50. Annual, in July/August issue of Educational Screen and Audiovisual Guide.

Listing of approximately 1200 titles in all media in 33 subject fields produced in the twelve months preceding publication. Includes reader service cards which include numbers for all producers and distributors to enable readers to channel requests for information concerning items through Educational Screen and Audiovisual Guide.

EDUCATORS GUIDE TO FREE TAPES, SCRIPTS AND TRANSCRIPTIONS, compiled and edited by Walter A. Wittich. 16th edition. Educators Progress Service, Randolph, Wisconsin 53956. 1973. 200 pages. \$7.75. Revised annually.

Over 300 tapes, 15 scripts and 65 transcriptions in all instructional subjects including conservation, guidance, health education, homemaking, language arts, music, science, and social studies. Available on free loan to school superintendents, AV directors, librarians and teachers.

HARRISON TAPE CATALOG: OPEN REEL, CASSETTES AND 8-TRACK, M. & N. Harrison, Inc., 274 Madison Avenue, New York, N.Y. 10016. Cumulative catalog published bimonthly, \$1 per single copy, \$5 per yearly subscription. (Generally available at record and music shops.)

Approximately 1400 old and new tapes under such headings as: children's, language lessons, international, vocal, opera, folk, jazz and others. Each category includes a "what's new" list as well as cumulative list.

LEARNING DIRECTORY--INSTRUCTIONAL MATERIALS INDEX. Westinghouse Learning Corporation, 100 Park Avenue, New York, N.Y. 10017. 1970, with 1972 supplement. \$99.50, \$25.00 supplement.

This seven volume directory identifies over 205,000 audiovisual and instructional materials for all grade levels in all subject areas. Over 1000 different producers represented in directory. One of two most comprehensive audiovisual materials listings in existence. Reads like white pages of Los Angeles telephone directory.



Semiannual with annual cumulations at \$20. Music and Phonorecords, 1953-57 cumulation, issued as v.27 of the National Union Catalog. \$20. 1049p. Music and Phonorecords, 1958-62 cumulation, issued as v.51 and v.52 of the National Union Catalog. v.51, \$20. 1049p; v.52, \$20. 514p. Music and Phonorecords, 1963-67 cumulation, issued in 3v., \$75. Quinquennial volumes for 1953-57 and 1958-62 are for sale by Rowman and Littlefield, Inc., 84 Fifth Avenue, New York, N.Y. 10011. Quinquennial volumes for 1963-67 are for sale by J. W. Edwards, Inc., Ann Arbor, Michigan 48106. Current issues and annual cumulation available from the Library of Congress, Card Division, Building No. 159, Navy Yard Annex, Washington, D.C. 20541. The next quinquennial cumulation will cover the years 1968-72; therefore, there will be no annual cumulation for 1972.

Music scores intended for performance and sound phonorecords, musical and nonmusical. The nonmusical recordings cover all subject fields currently received by the Library of Congress and other American libraries participating in its cooperative cataloging program. Books about music and librettos have been included since 1963.

NATIONAL CENTER FOR AUDIO TAPES CATALOG, National Center for Audio Tapes, University of Colorado, Stadium Building, Boulder, Colorado 80302. 1972. 123 pages. \$4.50.

Approximately 12,000 tapes selected on basis of curricular relevance and production quality which can be re-recorded for any individual, group, educational institution, or business firm provided that the restrictions are adherred to. Tape listings for all subject matters and grade levels.

NICEM, National Information Center for Educational Media, University of Southern California, University Park, Los Angeles, California 90007.

A. Index to Educational Audio Tapes, 1972, \$36.50 (yearly update).

Lists and describes over 20,000 audio tapes for educational use. Identifies producer, distributor, grade level, content area, and availability. Selective search via computer with descriptors possible.

B. Index to Educational Records, 1972, \$34.50 (yearly update)

Lists and describes over 18,000 educational records. Same information available as in other NICEM indexes.



SCHWANN RECORD AND TAPE GUIDE. Monthly Schwann Supplementary
Record Guide; semiannual. W. Schwann, Inc., 137 Newbury Street,
Boston, Massachusetts 02116 (Also available in some 3,800 recordtape shops in the United States.)

Guide includes over 35,000 titles from 770 companies in all subject areas. 1949-1969 listings availabe on 35 mm positive microfilm from: AMS Press, Inc., 56 East 13th Street., New York, N.Y. 10003. Schwann Children's Record Guide (1970), pulished annually for \$.35 post-paid from publisher.



### GROUP 11

AN ANNOTATED LIST OF RECORDINGS IN THE LANGUAGE ARTS, compiled and edited by Morris Schreiber. National Council of Teachers of English, 508 South Sixth Street, Champaign, Illinois 61820. 1971. Stock Number 47906. 83 pages. \$1.75.

> An annotated selected list of records to aid English teachers in elementary schools, secondary schools in subject areas of American literature, folk literature, American history, world history, social studies, English and American poetry and prose, drama, Shakespeare, documentaries, lectures, speeches, and anthologies, 436 entries.

AUDIOVISUAL MARKETPLACE -- A MULTIMEDIA GUIDE, J. A. Neal, Editory. R.R. Bowker Company, 1180 Avenue of the Americas, New York, N.Y. 10036. 1972. 293 pages. \$15.00.

> A guide to producers and distributors of audiovisual materials, free loan and audio tape exchange centers, educational radio and television stations, audiovisual associations, audiovisual reference materials, audiovisual periodicals and review services, and audiovisual services such as: cataloging, dealers, laboratories, and equipment rental.

THE BLACK RECORD: A SELECTIVE DISCOGRAPHY OF AFRO-AMERICA ON AUDIO DISCS, Washington University Libraries, Audio-Visual Department, St. Louis, Missouri 63130. 1970. 13 pages. \$50 prepaid, \$1.50 if billing required.

> More than 100 phonodiscs dealing with black history. Documentary and spoken word recording classifications include biographical material, speeches, poetry, prose and drama. Emphasis is placed on "authentic" folk recordings and they range from origins in Africa to "Songs of the Selma-Montgomery March."

EDUCATORS GUIDES TO FREE MATERIALS, Educators Progress Service, Randolph, Wisconsin 53956.

- 1. Free Guidance Materials \$8.75
- 2. Free Social Studies Materials \$9.50
- 3. Free Health, Physical Education and Recreation Materials \$8.00
- 4. Free Science Materials \$9.25

Generally available listings of free-loan educational and informational multi-media materials. Each directory contains at least 50 tapes. Classified by medium and subject, then alphabetical by title.



EDUCATIONAL MEDIA INDEX: A PROJECT OF THE EDUCATIONAL MEDIA
COUNCIL. McGraw-Hill Book Company, New York, N.Y. 10036.
1964. 14 volumes. \$62.45. Individual volumes available
separately at various prices. (Limited supply available
from Educational Media Council, Inc., DuPont Circle Building,
Suite 710, 1346 Connecticut Avenue, N.W., Washington, D.C. 20036.

Over 28,900 titles of media (all types) in all subject matters from kindergarten to adult education. Entries include subject heading, type of medium, producer-distributor, length, grade level, and availability.

EDUCATOR'S PURCHASING GUIDE (formerly Fisher Publishing Company's EPM), 5th Edition, North American Publishing Company, 134 North Thirteenth Street, Philadelphia, PA 19107. 1973. \$21.50.

A reference guide to producers of instructional and audiovisual materials and equipment for all grade levels and disciplines of education. Included are product listings, product information sections, producer/manufacturer sections, and a trade name section.

GENERAL CATALOG OF TALKING BOOKS, American Printing House for the Blind, Inc., 1839 Frankfort Avenue, P.O. Box 6085, Louisville, KY 40206. 1973.

Talking books (recorded at 16 2/3 rpm or 8 1/3 rpm) have been listed according to school subjects. All are available for purchase from APH. Note talking books require special playback equipment (also available from APH.) A listing of audio tape cassettes is also available free from the American Printing House under a separate cover.

FOLK MUSIC: A CATALOG OF FOLK SONGS, BALLADS, DANCES, INSTRUMENTAL PIECES, AND FOLK TALES OF THE UNITED STATES AND LATIN AMERICA ON PHONOGRAPH RECORDS, U.S. Library of Congress, Reference Department, Music Division, Recording Library, Washington, D.C. Available from U.S. Government Printing Office, Washington, D.C., 20402. 107 pages. \$.45.

Records representing a sampling of the best of more than 16,00) records in the Archive of Folk Song of the Library of Congress. Included in catalog are 107 discs (78 rpm) containing 341 titles and 59 discs (33 1/3 rpm) with 899 titles of folk music and tales recorded in the field with portable recording equipment, for sale by the Library of Congress.



GUIDES TO EDUCATIONAL MEDIA, 3rd edition, Maryaret I. Rufsvold and Carolyn Guss, American Library Association, 50 East Huron Street, Chicago, Illinois 60611. 116 pages. \$2.50.

A guide to catalogs and references, services of professional organizations, and specialized periodicals which systematically provide information on nonprint educational media. Identifies and describes 153 educational media references and is more comprehensive than selective.

NEW EDUCATIONAL MATERIALS, compiled by Mary L. Allison, Citation Press, 50 Forty-fourth Street, New York, N.Y. 10036. 1970. 256 pages. \$3.75.

Annotated listing of films, phonodiscs, phonotapes, multimedia kits, charts, etc., for the classro m teacher from prekindergarten through the twelfth grade. Many materials have evaluative comments.

SPOKEN RECORDS, by inclen Roach. Scarecrow Press, Box 656, Metuchen, New Jersey 08840. 1970. 288 pages. \$7.50.

More than 500 spoken recordings including documentaries, lectures, interviews and readings by authors. Arranged by subject categories, then alphabetical by title.



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### AUDITORY LEARNING MATERIALS AVAILABLE FROM EDUCATIONAL RADIO STATIONS

Compiled by WILLIAM ANDERSON

Educational radio stations (noncommercial stations licensed and supported by school districts, colleges, and universities) have a long history of providing instructional and educational programming to public school and specialized audiences. The following list of educational radio stations (extracted from Audiovisual Market Place, 1972-73) maintain audiotape and record libraries of selected programs. Many of these programs and series are effective auditory learning materials for children which are not available from commercial or other sources. Availability varies, but many make copies available on a loan, rental or cost of duplication basis.

For a sample of materials available from educational radio stations, Appendix A contains information and offerings from WHA Radio, Madison, Wisconsin.



### ARIZONA

KFCA-FM
Mr. Charles E. Buzzard
Maricipa County Community College
1202 West Thomas Road
Phoenix, Arixona 85013
(602) 264-2492

Maintains a library of audiotapes available on rental to schools, libraries, individuals, etc.

Contact for listing.

### <u>CALIFORNIA</u>

1?FA-FM Mr. Judson Snyder, Pirector Pacifica Foundation 2207 Shattuck Avenue Berkeley, California 94704 (415) 848-6767

Maintains a library of audiotapes for sale to schools, libraries, radio stations, industry and individuals. Catalog available.

KDVS-FM
Mr. Richard Anderson, General
Manager
Radio KDVS
c/o ASVCD
University of California
Davis, California 95616
(916) 752-2776

Tape catalog available.

**ERIC** 

KFJC-FM
Mr. John Hasling, General
Manager
Foothill College
12345 Elmonte Road
Los Altos Hills, CA 240 2
(408) 948-9870

Maintains a library of audiotapes available on exchange or sale to schools, libraries, industry, etc.

### CALIFORNIA (continued)

KPFK-FM

Mr. Will I. Lewis, General Manager Pacifica Foundation Los Angeles, California 90038 (213) 877-2711

Audiotapes available for small cost to all interested parties. Catalog available.

KUSC-FM

Mr. Douglas Culver, Manager University of Southern California University Park Los Angeles, California 90007 (213) 746-7808

Catalog of programs available.

KXLU-FM
Mr. Rene A. Marclan, General
Manager
Loyola University of Los Angeles
7101 West 80th Street
Ios Angeles, California 90045
(213) 670-1043

Classical and jazz musical program.

KVCR-FM

Mr. Robert G. Burningham San Bernardino Community College 701 outh Mt. Vernon Avenue San Bernardino, California 92403 (714) 885-0234

Library of programs produced is available on audiotape on exchange or free basis to radio stations.

KSJS-FM

Mr. William Hall, General Manager San Jose State College San Jose, California 95114 (408) 294-6414 ext. 2550

Catalog of programs available.

### ' IFORNIA (continued)

KCSM-FM
Dr. Jacob H. Wiens, General Manager
San Mateo Junior College
1700 W. Hillsdale Blvd.
San Mateo, California 94402
(415) 574-6427

rograms available on audiotape on pan to schools, libraries, industry, ther radio stations.

KCRW-FM
Santa Monica Unified School Dist.
1723 4th Street
Santa Monica, California 90401
(213) 393-2785

rintains a library of audiotapes and cords. Catalog of programs avail-

KUOP-FM Mr. James H. Irwin liversity of the Pacific 3601 Pacific Avenue Stockton, California 95204 (209) 946-2330 ext. 2379

rintains a library of audiotapes vailable to schools, libraries, inustry, etc. on exchange basis or ale-very nominal charge. Program lick available.



KRCC-FM

Mr. Phil Ershler, Program Director Colorado College Colorado Springs, Colorado 80903 (303) 473-2233 ext. 335

intains a library of audiotupes ailable on exchange or loan to hools.

### COLORADO (continued)

KUNC-FM

Dr. William Hurt, Program Director University of Northern Colorado Greeley, Colorado 80631 (303) 351-3333

Maintains a library of audiotapes available on exchange or loan to schools and individuals.

KWSB-FM Ms. Barbara Hess, Program Manager\_ Western State College of Colorado

Box 928

Gunnison, Colorado 81230 (303) 641-2131

Maintains a library of audiotapes available on exchange or loan to schools and other organizations rent free.

### CONNECTICUT

WPKN-FM Mr. Jeffrey N. Tellis, General Manager University of Bridgeport 244 University Avenue Bridgeport, Connecticut 06602 (203) 336-5364

Maintains a library of audiotapes for sale to schools, libraries, industry, individuals, and other radio stations.

WRTC-FM
Mr. Kevin S. Gracey, Program
Director
Trinity College
Box 1368
Hartford, Connecticut 06106
(203) 522-9229

Programs available on 1/4 inch audiotape. Send for listing of available programs.



### COMMICTICUT (continued)

WESU-FM Mr. William Hutchins Wesleyan Broadcast Association, Inc. Box 2300 Wesleyan Station Middletown, Connecticut 06457 (203) 346-7791

Maintains a library of audiotapes available on rental to schools, libraries, and non-profit organizations.

WWUH-FM

Dr. Daniel Viamonte University of Hartford 200 Bloomfield Avenue West Hartford, Connecticut 06117 (203) 523-4647

Maintains a library of audiotapes available on exchange.

### DISTRICT OF COLUMBIA

WAMU-FM

Ms. Susan Harmon, General Manager The American University Massachusetts & Nebraska Ave., N.W. Washington, D.C. 20016 (202) 686-2692

Program guide available.

WETA-FM

Mr. Donald V. Taverner
The Greater Washington Educational
Telecommunications Association, Inc.
2600 Fourth St., N.W.
Washington, D.C. 20001
(202) 387-1300

Catalog of audiotape programs available.

### FLORIDA

WUSF-FM
Mr. Richard Steck, Station
Manager
University of Southern Florida
4202 Fowler Avenue
Tampa, Florida 33620
(813) 974-2341

Maintains a library of audiotapes available on exchange, loan and rental. Available on application. Program catalog available.

· WPRK-FM

Dr. Charles A. Rodgers Rollins College Winter Park, Florida 32789 (305) 646-2375

Maintains library of audiotapes and 33 l/3 records. Contact for catalog.

### ILLINOIS

WSIU-FM

Mr. John Kurtz, General Manager Southern Illinois University 1056 Communications Bldg. Carbondale, Illinois 62901 (619) 453-4343

Audiotape programs available. Free catalog, programs available to commercial and cducational broadcasts, schools and colleges.

WBEZ-FM
Ms. Elizabeth E. Marshall
Board of Education, City of
Chicago
228 North LaSalle Street
Chicago, Illinois 60601
(312) 641-4088 ext. 90

Library of programs occasionally available on exchange or loan to schools, libraries, other radio stations. Annual schedule availab upon request.



### INOIS (continued)

WGLT-FM Mr. Ben Paxton, Jr. Illinois State University Normal, Illinois 61761 (309) 436-6691

udiotape programs. Catalog

WMTH-FM

Mr. William R. Mitchell, General Manager School District #207 Dempster and Potter Road Park Ridge, Illinois 60068 (312) 696-2525 ext. 562

aintains a library of programs.

### ND I ANA

WFIU-FM

r. James Perry, Education Director Indiana University
Board of Trustees
Bloomington, Indiana 47401
(812) 337-1357

atalog of programs available on imited basis.

WPSR-FM

Mr. Robert S. Edelman Evansville-Vanderburg School Corp. 726 Wedeking Avenue Evansville, Indiana 47711 (812) 425-1801

Library of tapes available to schools. Latalog available.

WFCI-FM

Mr. Raymond Cowan, Education Director Franklin College of Indiana Franklin, Indiana 46131

l alog available.

### INDIANA (continued)

WGVE-FM
Mr. Lawrence Ventura, General
Manager
School City of Gary
1800 E. 35 Street
Gary, Indiana 46409
(219) 962-7571

Maintains a library.

WGCS-FM

Mr. Ray Vinble, Program Director Goshen College Broadcasting Corp. Goshen College Goshen, Indiana 46526 (219) 533-3161

Catalog of programs available.

WIAN-FM

Mr. Arthur Van Allen Indianapolis Board of School Commissioners 931 Fletcher Avenue Indianapolis, Indiana 46203 (317) 638-3493

Maintains library of audiotapes.

WICR-FM

Mr. William Byer, General Manager Indiana Central University 4001 Otterbein Avenue Indianapolis, Indiana 46227 (317) 783-3730

Maintains library of audiotapes available to anyone for exchange, loan, sale, rent, free, or for postage. List of programs available.

WBST-FM

Mr. M. John Eiden, Assistant Readio Station Manager Ball State University Center for Radio and TV Muncie, Indiana 47306 (317) 285-1833

Catalog of programs available for exchange, loan, rent, sale, or free.



### INDIANA (continued)

WBAA-AM
Mr. R. U. Forsythe, Educational
Director
Purdue University
Hall of Music
West Lafayette, Indiana 47907
(317) 749-2385

Library of tape recordings available on exchange, loan or sale to schools.

### IOWA

KDPS-FM
Dr. E. Keith Kyde, Education
Director
Des Moines Independent Community
School District
1800 Grand Avenue
Des Moines, Iowa 50307
(515) 284-7723

Maintains a tape library.

WSUI-AM
Mr. George Klingler, Education
Director
University of Iowa
Iowa City, Iowa 52240
(319) 353-5666

Maintains library of audiotapes available on exchange, rental, or sale to schoole and libraries.

KRNL-FM
Dean Robert A. Reid, Education
Director
Cornell College
Mount Vernon, Iowa 52314
(319-895-6239

Audictapes of documentary and special events programs available free, on exchange, or sale (depending on the type of program). Catalog available.

### IOWA (continued)

KWAR-FM
Mr. Robert C. Gremmels, Advisor
Wartburg College
Waverly, Iowa 50677
(319) 352-1200 ext. 306

Catalog of programs available.

### KANSAS

KFKU & KANU-FM
Mr. Richard F. Wright, Operations Director
The University of Kansas
Broadcasting Hall
Lawrence, Kansas 66044
(913) 864-4530

Catalog available.

### **KENTUCKY**

WBKY-FM Mr. Don Wheeler, General Manager University of Kentucky McVey Hall Lexington, Kentucky 40506 (606) 257-2733

Maintains a library of audiotapes available on exchange or loan to schools, libraries, industry, etc.

WEKU-FM Mr. James Harris, Director, Division of Instructional Services Eastern Kentucky University Richmond, Kentucky 40475 (606) 622-2475

Audiotapes of programs available on eachange or loan to schools, libraries, industry and other radio stations. Catalog of programs available.



### <u>: .</u>:

WMEB-FM
Mr. Wofford G. Gardner, Education
Director
University of Maine
240 Stevens Hall
Orono, Maine 04473
(207) 581-7385

aintains a library of audiotapes vailable to schools, libraries, ndustry, individuals, and other adio stations. Catalog of programs vailable.

### .SSACHUSETTS

WCFR-FM
Mr. Arthur R. Cohen, Program
Director
University of Massachusetts
Hampshire House
Amherst, Mass. 01002
'413) 545-0100

aintains a library of audiotapes vailable on exchange, loan or sale.

WMUA-FM
Mr. Kenneth L. Horseman
English Building
University of Massachusetts
Amherst, Mass. 01002
(413) 545-2878

aintains a library of audiotapes vailable on exchange or loan to chools and individuals.

WPAA-FM Mr. Peter Halley, Program Director Phillips Academy Andover, Massachusetts 01.10 (617) 475-3404 ext. 86

rapes of lectures and special prorams are available for price of ape, or free if tape is supplied h request.

### MASSACHUSETTS (continued)

WBUR-FM
Mr. Stephen Schlow, Program
Director
Boston University
630 Commonwealth Avenue
Boston, Mass. 02215
(617) 353-2700

Maintains a library of audiotapes, records--33 1/3, 78 and 45.

WTBS-FM
Professor Arnold Amstutz, MIT
WTBS Foundation, Inc.
3 Ames Street
Cambridge, Mass. 02142
(617) 868-9827

Maintains a library of audiotapes available on exchange or sale to schools, libraries, industry, etc. Catalog of programs available.

WMHC-FM
Ms. Eloise Fuller, Station
Manager
Mount Holyoke College
S. Hadley, Mass. 01075
(413) 538-2044; 2063

Maintains a library of audiotapes and records (33 l/3 and 45) available on exchange or loan to schools.

WAIC-FM
Mr. Joe English, Educational
Director
American International College
Springfield, Mass. 01109
(413) 737-5332 ext. 232

Maintains a library of audiotapes available on exchange or loan to schools and libraries.



### M. COLGAN

WVAC-FM

Mr. Roger Wallace, President and Educational Director Adrian College 110 S. Madison Street Adrian, Michigan 49221 (313) 265-5161 ext. 440

Maintains a library of audiotapes available on exchange or loan to schools and libraries.

WDTR-FM

Dr. Dorothy F. Patterson Program Director Detroit Board of Education 9345 Lawton Avenue Detroit, Michigan 48206 (313) 833-7900 ext. 2161

Audiotapes of programs available on exchange or sale to schools, libraries, industry and other radio stations. Program guides available.

WKAR & WKAR-FM
Mr. Richard Estell, Educational
Director
Michigan State University
East Lansing, Michigan 48824
(517) 355-6540

Broadcasts fine arts and information programs. Operates tape distribution services, primarily for Michigan radio stations. Some programs available at cost to schools, library services, etc.

WMUK-FM
Dr. Charles Woodliff, Director
Division of Instructional Communications
Western Michigan University
Maybee Music Building
Kalamazoo, Mich. 49001
(616) 383-1921

Mointains a library of audiotapes available on exchange or loan and sale to schools or educational or commercial stations.

### MICHIGAN (continued)

WEMU-PM
Mr. Richard E. Jacques, Program
Director
Eastern Michigan University
130 Quirk Building
Ypsilanti, Michigan 48197
(313) 487-3197; 2229

Maintains library of audiotapes available on exchange or loan, rental and sale (determined by use) to schools, libraries, industry, other radio stations.

### MINNESOTA

KSJR-FM

Mr. William H. Kling, President Minnesota Educational Radio, Inc. Collegeville, Minn. 56321 (612) 363-7702

Mainteins a library.

KUOM

Ms. Marion Watson, Educational Director University of Minnesota Eddy Hall Minneapolis, Minn. 55455 (612) 373-3177

Audiotapes of programs available free to schools, libraries, individuals and other radio stations. Catalog of programs available.

KSJN

Mr. W. H. Kling, President Minnesota Educational Radio, Inc. 30 E. 10th Street St. Paul, Minn. 55101 (612) 224-4711

Maintains a library of audiotapes for sale to schools, libraries, industry and to individuals.



### SOURI

KWWC-FM Professor Lowell A. Connor II General Manager Stephens College Columbia, Missouri 65201 (314) 442-2211

aintains a library of audiotapes: vailability varies with type of naterial.

### EVADA

KUNR-FM Mr. Donald G. Potter, Educational Director University of Nevada Reno, Nevada 89507 (702) 784-6591

aintains a library of audiotapes, ibrary of programs available for EST COPY AVAILABLE rental to schools and other radio itions.

### EW JERSEY

WGLS-FM

Mr. Robert Blake, General Marager and Educational Director Glassboro State College P.O. Box 116 Glassboro, New Jersey 08028 (609) 445-7335

Catalog available.

### EW MEXICO

Mr. Lance A. Woodworth, General Manager New Mexico Union University of New Mexico Albuquerque, New Mexico 87106 (505) 277-4806

uintains a library of audiotapes zvailable on exchange or loan to chools, libraries, industry, etc.

### NEW MEXICO (continued)

KRWG-FM Mr. Harvey Jacobs, Educational Director New Mexico State University Box 3J, University Park Las Cruces, New Mexico 88001 (505) 646-4525

Maintains a library of audiotapes available on exchange or loan to schools.

### NEW YORK

WNYE-FM Mr. James F. Macandrew, President Board of Education City of New York 29 Fort Greene Place Brooklyn, New York 11217 (212) 596-3335

Maintains a library of audiotapes available on exchange or loan. Catalog available.

### WBFO-FM

Mr. Don G. Blakely, President State University of New York 3435 Main Street Buffalo, New York 14213 (716) 831-5393

Maintains a library of audiotapes available on exchange or loan to schools, libraries, industry, etc.

VSLU-FM

Mr. Richard D. Hutto, General Manager The St. Lawrence University Canton, New York 13617 (315) 379-5356; 6302-3

Free audiotapes of programs available to schools and libraries.



### New YORK (continued)

WGSU-FM

Mr. John A. Davlin, Educational Director Board of Trustees State University of New York State University College

Geneseo, New York 14454

(716) 245-5586

Maintains a library of audiotapes available or exchange.

WVHC-FM

Dr. George N. Gordon, Director Communications Center Hofstra University 1000 Fulton Avenue Hempstead, New York 11550 (516) IV9-887.0, 560-3389

A library of audiotape programs is available; programs on 1/4 inch audiotape are issued on a rental basis to institutions at \$15.00 per tape average (prices vary according to type and duration of program). Tapes available to libraries on a sale basis, prices on request. Catalog of programs sent on request.

### WSHR-FM

Mr. Richard E. Fearns, Advisor Radio Communications Board of Education of Central School District No. 5 (Sachem Central) 245 Union Avenue Holbrook, New York 11741 (516) 588-2700

Maintains a library of audiotapes. Library of programs available on loan to schools, libraries, industry, individuals, other radio stations.

WICB-FM

Mr. Rudy Paolangeli, Radio Director Ithaca College Ithaca, New York 14850 (607) 274-3214

Maintains a library of audiotapes available or exchange or loan.

**ERIC** 

### NEW YORK (continued)

WBAI-FM

Mr. Edwin A. Goodman, Manager WBAI-FM, Inc. (Pacifica Foundation) 359 E 62 Street New York, N.Y. 10021 (212) VA6-0880

Tapes of programs available on loan and sale to individuals and to other radio stations. Catalog of programs available.

WKCR-FM

Mr. Michael M. Meadvin, President 208 Ferris Booth Hall Columbia University New York, N.Y. 10027 (212) 280-5011

Tapes of programs available for sale to schools, libraries, industry, individuals and other radio stations.

### WNYC

Mr. Seymour N. Siegel, Director Municipal Broadcasting System 2500 Municipal Building New York, N.Y. 10007 (212) 566-2115

Maintains a library of audiotapes available on exchange or loan, rental and sale to schools, libraries, etc.

WTSC-FM

Mr. Stanley Rowin, General Manager Clarkson College of Technology Potsdam, New York 13676 (315) 265-7180

Maintains a library of audiotapes available on exchange or loan to schools.

WRUR-FM

Mr. Sam Scott, Program Director University of Rochester Broadcasting Corp. Box 5068 Rochester, New York 14627

(716) 461-1450

### YORK (continued)

WHAZ
Mr. Dick West, Director
Box 784
Troy, New York 12181
(518) 272-1010

selected library of audiotapes vailable on rental and sale.

### NORTH CAROLINA

WUAG-FM

Mr. Emil W. Young, Jr., Director Radio and T.V. University of North Carolina at Greensboro Greensboro, North Carolina 27412 (919) 379-5405

Maintains a library.

WEDD-FM
Or. Julian C. Burroughs, Jr.
Jeneral Manager
Box 7405
Wake Forest University
Winston-Salem, N.C. 27109
(919) 725-9711 ext. 218

indictapes of programs available to chools, individuals and other edusational radio stations.

### ORTH DAKOTA

KFJM

Mr. D. E. Beach, Director of Radio University of North Dakota Box 8116
Grand Forks, N.D. 58201
(701) 777-2577

Maintains a library of audiotapes and film (16 mm) on exchange or loan and rental to schools, libraries, industry, etc.

### 01110

Dr. Ruth Lewis, General Manager University of Akron 302 E. Buchtel Avenue Akron, Ohio 44304 (216) 762-2112

Maintains a library of audiotapes and videotapes available on exchange or loan and rental to schools, libraries, industry, etc.

WOUB-AM-FM
Mr. Joseph Welling, Director of
Broadcasting
Ohio University
College Street
Athens, Ohio 45701
(614) 594-5321

Maintains a library of audiotapes available on exchange or loan, rental and free to schools, libraries, industry, etc.

WCDR-FM
Mr. Paul Gathany, General Manager
Cedarville College
N. Main and College
Cedarville, Ohio 45314
(513) 766-2231

Maintains a library of audiotapes and tape duplication facilities.

WBOE-FM
Mr. Charles E. Siegel, Educational
Director
Board of Education
Cleveland City School District
1380 E. 6 Street
Cleveland, Ohio 44114

Catalog of programs available upon request.

WOSU & WOSU-FM
Mr. Thomas C. Warnock, General
Manager
Ohio State University
2400 Olentangy River Poad
Columbus, Ohio 43210
(614) 421-2540

Maintains a library of audiotapes available on rental to schools,



### Oh: 0 (continued)

WKSU-FM

Mr. John Perry, General Manager Kent State University Main and Horning Road Kent, Ohio 44242 (216) 672-2376; 7997

Maintains a library of audiotapes available on rental to schools and libraries.

WOBC-FM

Mr. Charles Perego, Educational Director
Oberlin College Student Network, Inc.
Wilder Hall
Oberlin, Ohio 44074
(216) 774-1059

Maintains a library of audiotapes available on exchange or loan to schools. Program catalog available.

WMUB-FM

Dr. Stephen C. Hathaway Director of Telecommunications Miami University Telecommunications Service Oxford, Ohio 45056 (513) 529-3521

Maintains a library of audiotapes available on exchange or loan and rental to schools, libraries, industry, etc.

WCSU-FM

Mr. Willis Parker, Program Director Central State University Wilberforce, Ohio 45384 (513) 376-7223

Maintains a library of audiotapes and videotapes available on rental, sale and free to schools, libraries, industry, etc.

### OHIO (continued)

WYSO-FM

Mr. Dale Crouse, General Manager Antioch College Antioch College Union Yellow Springs, Ohio 45387 (513) 767-7715

Library of programs (audiotapes) available on exchange or sale.
Tape exchange programs and catalog are available.

### **OREGON**

**KOAC** 

Mr. Donald R. Larson, Educational Director
State Board of Higher Education Covell Hall
Corvallis, Oregon 97331
(503) 754-1311

Audiotapes of programs available on sale to schools, libraries. Catalog available.

### PENNSYLVANIA

WMUH-FM

Rev. George F. Eichorn, Educational Director Muhlenberg College

Box 10B

Allentown, Pennsylvania 18104 (215) 433-5957

Maintains a library of audiotapes and printed scripts available on exchange or loan and sale to schools.

WGEV-FM
Mr. Thomas Lenz, General Manager
Geneva College
Board of Trustees
Beaver Falls, Pernsylvania 15010
(412) 846-5100

Maintains a library of audiotapes available on exchange or loan.



### 43YLVANIA (continued)

WUHY-FM
Mr. Nathan Arnold Shaw, Station
Manager
WHYY, Inc.
4548 Market Street
Philadelphia, PA 19139
(215) EV2-9300

"diotapes of programs available
n exchange basis to education and
on-commercial stations upon request.

### **DAKOTA**

KUSD-AM-FM

Mr. Jack Bruce, Director of Radio University of South Dakota Vermillion, South Dakota 57069 (605) 677-5277

zintains a library of audiotapes vailable on exchange or loan to -ols (in-state only).

### ENNESSEE

WSMC-FM

Mr. Don Self, Program Manager Southern Missionary College Box 870 Collegedale, Tennessee 37315 (615) 396-2320

aintain: library of audiotapes vailable on emchange or sale to chools, libraries, industry, inviduals, other radio stations. isting of services and prices vailable.

WPLN-FM

Mr. David Marshall Stewart,
Educational Director
Public Library of Nashville and
Davidson County
'ighth Avenue N. and Union
..ashville, Tenn. 37203
(615) 244-4700

aintains a library. Items are vailable only on individual ERIC<sup>rment</sup>.

### **TEXAS**

KUT-FM

Mr. Robert F. Schenkkan, Manager University of Texas Box 7158, University Station Austin, Texas 78712 (512) 471-1631

Audiotapes of programs available for rental and sale to other radio stations. Catalog available.

KTCU-FM

Mr. Larry Lauer, Program Director Texas Christian University Fort Worth, Texas 76129 (817) WA6-2461

Maintains a library of 16mm motion pictures and audiotapes available on exchange or loan to schools, libraries, industry, etc.

KTXT-FM

Mr. Clive Kinghorn, Educational Director Texas Tech. University Tech Station Lubbock, Texas 79409 (806) 742-6276

Maintains a library of audiotapes available on exchange or loan or free (for cost of tape).

KOCV-FM

Mr. Wally Jackson, Faculty Director Odessa College Box 3752 Odessa, Texas 79760 (915) FE7-5381

Maintains a library of audiotapes and records (23 1/3 and 45).

KSYM-FM

Ms. Jean M. Longwith, General Manager San Antonio College 1300 San Pedro Avenue San Antonio, Texas 78284 (512) PE4-5381, ext. 381

Program catalog available.

### ILANS (continued)

KWBU-FM
Mr. Joseph C. Walters, General
Manager
Baylor University
Waco, Texas 76703
(817) 755-1511

Maintains a library of audiotapes available on exchange or loan to chools, libraries, industry, etc.

### UTAH

KBYU-FM

Mr. Earl J. Glade, Jr., Director, Broadcast Services Brigham Young University C-306 Harris Fine Arts Center Provo, Utah 84601 (801) 374-1211 ext. 3552

Audiotapes of programs available on exchange or rental to schools, educational and commercial radio stations. Catalog available upon request.

### <u>VERMONT</u>

WNUB-FM
Mr. Peter La France, Educational
Director
Norwich University
Jackman Hall
Northfield, Vermont 05663
(802) 485-5011 ext. 75

Maintains a library on exchange, loan, rental or sale to schools, libraries, industry, individuals and other radio stations.

### VIRGINIA

WLUR-FM

Mr. Ronald H. Macdonald. General Manager
Washington and Lee University
P.O. Box 1153
Lexington, Virginia 24450
(703) 463-2181

Maintains a library of audiotapes available on exchange or loan to schools.

WRFK-FM

Mr. Robert W. Kirkpatrick, General Manager Union Theological Seminary 3401 Brook Road Richmond, Virginia 23227 (703) 355-0671, ext. 31

Audiotapes and kinescopes available on exchange or loan and rental, sale or free to schools, libraries, industry, etc. Catalog available at \$3.00.

WCWM-FM

Mr. Clifford Pence, Faculty Advisor College of William and Mary Williamsburg, Virginia 23185 (703) 229-3000 ext. 275

Maintains a library of audiotapes available on exchange or loan to schools, libraries, industry, etc.

### WASHINGTON

KCWS-FM

Mr. Roger Reynolds, President Central Washington State College Ellensburg, Washington 98926 (509) 963-2311

Maintains a library of audiotapes available on exchange or loan to schools.



### VIRGINÍA

WVWC-FM Mr. Donald L. Singleton, Director West Virginia Wesleyan College College and Meade Buckhannon, West Virginia 26201 (304) 472-7030

aintains a library of audiotapes nd videotapes, printed scripts vailable on exchange or loan to chools, libraries, individuals, etc.

### ISCONSIN

WHA-FM
Mr. Ralph Johnson, General Manager
State of Wisconsin
Educational Communications Division
Radio Hall
Madison, Wisconsin 53706
(608) 262-2720

'atalog available.

WSUS-FM
Mr. Albert Croft, Educational
Director
Wisconsin State University
2100 Main Street
Stevens Point, Wisconsin 54481
(715) 346-2696

aintains a library of selected udiotapes available on exchange r loan to schools, libraries, ndustry and other broadcasting tations.

WSSU-FM
Mr. Richard DeFore, Director of
Radio
Wisconsin State University
Superior, Wisconsin 54881
(715) 392-8101

aintains a library of limited rogram material available on istape. Program guide available n request.



## aidt this Bolsia:

re are about 10,000 programs in HA-Radio's tape library. Because of mited storage space, not all programs re kept and few are kept for more nan one year. Generally, therefore, he programs listed in this catalog fall ito the following categories:

- 1) series currently being broadcast
- 2) series recently removed from the broadcast schedule
- series of timeless interest saved for rebroadcast
- 4) series in the permanent archive collection

le have included both instructional School of the Air) series and educational adult series which may have instructional uses. Not all of the spes in V/HA's library are listed between not all are permitted duplication, you have questions about a particutor broadcast, write for further information. Programs being produced eakly are available for duplication allowing the broadcast date. Consuit current Wisconsin School of the Air secher's manual for this information.

rurs is a duplication service. No ran, audition or rental of tapes is assible. If you are not certain you ant a complete series, order a few rugrams for use and evaluation.

ome of the series listed here are availble for broadcast by other educaonal, noncommercial radio stations, lease contact the Wisconsin School of a Air for broadcast prices and authozation.

## Ordering Drocedures

When ordering an audio tape copy (dubbing) of a program, give the Recording Service the following information.

- Title of series, number or broadcast year of series, titles of programs, and program numbers,
- Speed of the recording. We can record at 7% and 3% inches per second reel to reel, and 1 7/8 ips on cassette. No dual or four track recordings reel to reel.
- Name and address of person to whom the bill should be sent,
   Name and address of person to whom the lapes should be sent.
- Number of programs to be recorded on each tape (compute the average length of programs and length of tape at the selected speed).

15 minute program @ 7% ips = 600 ft

30 minute program @ 3% ips = 600 ft

30 minute program @ 7% ips = 1200 ft

60 minute program @ 3% ips = 1200 ft

30 minute program on each track = C60 cassette

(The convenience to the teacher in locating a program on the tape is a factor to consider.)

We recommend that you supply tape with your order. It is more convenient for us, and much cheaper for you. The tape we stock is expensive, low noise, broadcast quality with performance characteristics beyond what is needed for school use. However, tape can be purchased from WHA.

In supplying tape select name-brand, standard play, 1.5 mil tenzar or mylar tape. Reel size can be 5" or 7"; we

cannot work with reels smaller than 5". Cassettes should be C80 so that you do not have to interrupt listening to turn over the tape.

The prices quoted include mailing unless you wish first class or special delivery service.

Dubbing fee: \$2.70 per program

**Tape Prices** 

1200 foot: \$2,80 600 foot: \$1.70 C60 cassette: \$1,85

EXAMPLE:

If you want to purchase WHA tape and record two 15 minute programs per tape at 7½ ips the costs would be \$2.80 for a 1200 foot tape plus \$2.70 per program dubbing fee or a total of \$8.20 for the order.

NOTE: THESE PRICES ARE FOR NON-BROADCAST CLASS-ROOM USE. RADIO STA-TIONS MUST CONTACT THE WISCONSIN SCHOOL OF THE AIR FOR BROAD-CAST PRICES AND AUTHORIZATION.

We have a limited number of teacher's manuals and will provide one with the purchase of a complete series as long as the supply larts. Please request a manual in your order.

Address orders to Recording Service, WHA-Radio, 821 University Avenue, Madison, Wisconsin 53706.



## YEW World 'EW LIVES

#### 3radés 5-9)

Toward providing background upon rhich to build more specific knowlidge of Latin America and Canada. this series uses fictitious and often imusing characters and situations to llustrate and clarify broad historical concepts. A useful supplement to social studies. Series produced in 1961 Programs are 15 minutes in ength.

- 1. Bienvenidos, Amigos!
- 2. What's In a Name?
- 3. Professor Pablo
- 4. The Place of the Tenochess
- 5. The Civilization That Corn Built
- Tnatched Roof, Golden Earplugs
- 7. Hands That Rocked the Hammocks
- 8. Iberians
- 9. Spaniards in Two Parts When One Culture Meets Another
- 11. One Song, Two Verses
- 12. With Grace and Gentleness
- 13. Of Revolutions and Spanish Pans
- 14. The Missing Keystone
- 15. Los Caudillos: The Dictators
- 16. There is a Difference Between Revolutions
- The Continuing Revolution 17.
- 18. The House of the People
- 19. Revolution in a Valley
- 20. Brazilian Pioneers-Old Style
- 21. Brazilian Pioneers-New Style
- How to Govern a Gaucho 22.
- 23. Silver, Strangers, and Starvation
- 24. Neighbors
- 25. Of Fish and Fur and Foot's Gold
- 26. Pots and Pans, Plows and Spinning Wheels
- 27. Birds of Different Feathers
- 28. A Family Matter
- 29. Hordes and Swarms and Herds
- **30**. The End

## Old Stories and New Ideas with Boris

### (Grades 4-6)

Hazel Stewart Alberson has a rare ability to relate myths and fables of other worlds and ages to each man's every day. Selections from Greek. Roman and Norse legends, stories from Japan, China, Ireland, and Burma become vehicles for Mrs. Alberson's modern applications. Karl Schmidt's presentation of these selections is an excellent example of story-telling as an oral art form. Teachers have used these programs to motivate further reading, art work, creative writing, and special projects of many kinds. Program length varies from 16 to 25 minutes.

- 1. Phaeton's Folly
- Hermes
- Flood Stories 3.
- 4 Prometheus
- Creation of Woman
- 6. Daedalus and Icarus
- 7. King Mides
- 8. The Power of Music
- 9. Stories for Fun
- 10. Hospitality
- 11. White Horses
- 12. The Soil and the Seasons
- 13. Thor's Journey to Giantland
- 14. Contests
- 15. Odysseus, the Adventurer
- 16. The Poet as Storyteller
- 17. Prelude to a Life of Heroism
- 18. The Light and the Dark
- 19. Beginnings and Endings
- 20. The Story Teller's Use of Animals
- 21. Stars in Your Past and Future
- 22. Gratitude and Ingratitude
- 23. **Unpredictable Nature**
- 24. **Father of His Country**
- **2**5. Dragons-Friendly and Unfriendly
- 26. The Elepharit's Bathtub
- 27. Conqueror of All
- 28. Wisdom in a Nutshell
- 29. A New Story with an Old Formula
- 30. Athena and Athens

## Reckoning

#### (Grade 3)

Boris, President of the Finger Counters of the World, is a funny, stubborn, and dedicated hater of mathematics, who collides humorously with reasonable explanations of addition, subtraction. and multiplication—among other things. With his help, children begin to see mathematics as an entertaining man-invented subject, rather than an abstract, abstruse necessity.

The series is designed to supplement "new math" at third grade level, and is paced to stay a little behind the classroom curriculum. Programs are under 20 minutes in length.

- 1. **Mathematics Before Boris**
- The Value of Place
- A Fight for Zero and Inequality 3.
- More Thousands and a Review
- The Road to Mathematics
- 5. Boris Begins Adding His Prob-
- 7. Additional Problems With the Ladies
- 8. Sums, Differences, and Igor
- 9. Reviewing with Ryegood
- 10. Some Strange Uses of Mathematics
- 11. The Matter of Two-Digit Addition
- 12. The Matter of Two-Digit Subtraction
- 13. A Very Merry Jack Horner Day
- 14. Another Addition and Subtraction Matter
- 15. Some Practical Addition and Subtraction
- A Calculated Review
- 17. A New Device: Multiplication
- 18. Some Important Factors in Multiplication
- 19. One More Principle and a Few **Facts**
- Some Factors and a Horse
- Some Very Practical Multiplication



## BEST COPY AVAILABLE

## SECTION EIGHT

## **CORRESPONDENCE**

During the project year there were numerous contacts between the Consortium and member units. This section of the report contains representative correspondence from member units showing their contributions to the overall Consortium effort.



## State of Illinois Office of the Superintendent of Public Instruction Springfield, Illinois 62706

Michael J. Bakalis Superintendent

March 13, 1973

MEMORANDUM

TO:

Mrs. Lou Alongo

FROM:

Margaret Niederer

SUBJECT: Auditory learning areas in which Illinois would be interested.

The initial writing of the Illinois project that involves auditory learning proposes to locate, adapt and/or develop listening skills packets for visually impaired students. I am enclosing a copy of that writing, but briefly:

- 9/73 Literature will be reviewed and appropriate listening skill materials will be isolated, cost ascertained and purchased.
- 10/73 Working committee will be appointed (teachers, suditory specialists, etc.)
- 11/73 Specific skills required for visually impaired students will be identified.
- 3/74 Meet to discuss adaption/development.
- 6/74 Developments/adaptions outlined-raw material is submitted.

The interlock would be especially helpful in <u>identifying</u> needed materials and <u>locating</u> usable materials.

The person, who will be in charge of this project, is Miss Corinne Cloppes, 10400 West Diversey, Franklin Park, Illinois 60131, 312-455-4033. She will be the contact for Illinois. Please refer all further correspondence to her.

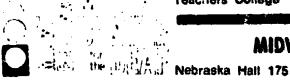
encl.

Mikad

cc: Gloria Calovini Corinne Cloppas







## REGIONAL MEDIA CENTER FOR THE DEAF

402-472-2141

Lincoln, Nebraska 68508

July 19, 1973

Dr. Ted Ward Associate Director Professor, Education College of Education Michigan State University East Lansing, Michigan 48823

Dear Ted:

Enclosed are my receipts for air travel to Chicago and the hotel statement for lodging Tuesday night at the O'Hare International Tower Hotel. My only other expense was for food (\$1.65 + \$1.75).

Again let me say that I was sorry that I could not be there for the first session. I do believe that the Consortium is now launched and that time will show us many ways by which we can cooperate with each other. I, too, feel the need for a fall meeting. Once we actually start on the project I think we will need reinforcement and direction.

Enjoyed working with you again.

Sincerely yours,

Robert E. Stepp, Jr., Ph.D.

Project Director

RES/edr

Enclosures



## University of Northern Colorado . Greeley, Colorado 80639



College of Education School of Special Education and Rehybilitation RMSEIMC

303/351-2681

September 27, 1973

Mr. Bill Anderson 218 Erickson Hall Michigan State University East Lansing, Michigan 48824

Dear Mr. Anderson.

Concerning your request, I must first explain that RMSEIMC's material classification is not a computerized system, but is based upon a set of card files. Any materials may be located by author, title (sometimes publisher), and Subjects. The subjects descriptors are based on the enclosed subject heading authority file. I have put an asterisk by subjects that deal with auditory learning.

Auditory learning materials may also be located by using the enclosed ITPA bibliography.

Following are examples of some auditory learning materials and their subjects:

- 1. Auditory Perception Training, DLM
  - a. Auditory Perception
  - b. Visual Perception
  - c. Fine Motor Coordination
  - d. Language Devalopment
  - e. Concept Formation
  - f. Lacry
  - ge Provide-ground Distrimination
- 2. Instining Progress Laboratory, Dorothy Kendall Bracken, EPC
  - a. Listering Skills, Development of
  - b. Individualized Instruction
- 3. Initial Consonant Learning Module, Society for Visual Education, Inc.
  - a. Preschool Education
  - b. Reading Primary
  - c. Reading Preprimary
  - d. Phonics
  - e. Individualized Instruction
- 4. ADD (Auditory Discrimination in Depth), Teaching Resources
  - a. Auditory Discrimination
  - b. Listening Skills, Development of

I hope this information has been of help to you.

Sincerely,

Piaces Milorn

Marcie Haloin

Instructional Materials Associate





## **CEC Information Center on Exceptional Children**

THE COUNCIL FOR EXCEPTIONAL CHILDREN
1920 Association Drive
Reston, Virginia 22091



November 1, 1973

Mr. S. Joseph Levine
Coordinator - Media & Materials Development Unit
Great Lakes Regional SEIMC
Michigan State University
213 Erickson Hall
East Lansing, Michigan 48823

Dear Joe:

Thank you for the opportunity to examine and hear the contents of the Audio Newsletter on A Classification System for Auditory Learning Materials distributed by the Consortium.

I am pleased that you were able to a apt the National Instructional Materials Information System (NIMIS) Master Record to your needs without major difficulties. It is this type of adaptation that was anticipated when the NIMIS record was designed. It's nice to have the feedback.

Enclosed is a copy of the September, 1973 Thesaurus of ERIC Descriptors which may be useful in noting which instructional materials descriptors are in ERIC at the present time. For those which are not in ERIC and you feel would be appropriate, several Descriptor Justification Forms (DJF's) are enclosed. We would be happy to act as the entry point for you on these matters.

Eventually the "Instructional Materials Thesaurus Second Edition" due in early 1974, will include descriptors tagged solely for use with instructional materials. Those descriptors of a professional nature will be candidates for inclusion in the fourth edition of the Thesaurus for Exceptional Child Education (copy included) which is composed of "pure ERIC" i.e. approved terms. We expect to publish that edition in the late summer of 1974. Please note the differences in the three thesauri you now have to avoid any obvious confusion!

Sincerely.

Carl F. Oldsen

Assistant Director



Enclosures

ANDING THE STANDINGER INFORMATION OF MATERIAL & CAMPAGE OF THE PROPERTY OF THE STANDING THE STANDING NETWORK

## BEST COPY AVAILABLE

Teachers College UNIVERSITY OF NEBHASKA Department of Educational Administration

## MIDWEST REGIONAL MEDIA CENTER FOR THE DEAF

S Nebraska Hall 175

402-472-2141

Lincoln, Nebraska 68508

No omber 13, 1973

Dr. Ted Ward
Great Lakes Area Special
Education Instructional Materials
Center
213 Erickson Hall
Michigan State University
East Lansing, Michigan 48825

#### Dear Ted:

First, may I compliment you upon the concept of a one-day meeting. I thought that we accomplished a great deal in a short period of time.

University film rental catalog. You may be interested in how it was produced. This catalog is computer compiled, but off-set printed. If you have questions about the process, I can obtain all the information from Dr. Jim Buterbaugh.

#### My expenses are as follows:

	Meals				
Plane fare	\$89.91	Nov.	8	lunch	\$2.36
Limousine to				dinner	3.60
ai rport	2.25	Nov.	9	breakfast	1.85
Limousine from					
airport	2.25				
Hotel	30.77				

If you have not done so, may I suggest that you write to the National Center for Audiotapes, University of Colorado, Stadium Building, Boulder, Colorado 80302, and request their catalog and supplements. You may be interested in the tape catalog from Lifelong Learning, University Extension, University of California, Berkley, California 94720.

See you in February if not before.

Sincerely yours,

Bob

Robert E. Stepp, Jr., Ph.D. Project Director



RES/edr



national







the ofio state university 220 west 12th avenue, columbus, ohio 43210/(614)422-7576

13 November 1973

Mr. Ted Ward, Coordinator Consortium on Auditory Learning Materials for the Handicapped 213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Dear Mr. Ward:

I am very sorry to have missed the November 9 meeting of the Consortium on Auditory Learning Materia's for the Handicapped. As I explained on the phone to Mr. Anderson, the TWA strike made it impossible to arrive in Chicago before mid=day, but I hope the other participants were not similarly affected.

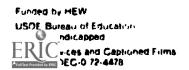
The Center would appreciate receiving any summary of the meeting which you publish. It should be sent to the attention of Dr. Ann H. White.

Sincerely,

Daphne Philos

Daphne Philos

mem



### **BEST COPY AVAILABLE**

#### UNIVERSITY OF KENTUCKY

## REGIONAL SPECIAL EDUCATION INSTRUCTIONAL MATERIALS CENTER

730 SOUTH LIMESTONE STREET LEXINGTON, KENTUCKY 40506

COLLEGE OF EDUCATION
DEPARTMENT OF SPECIAL EDUCATION

000-258-4921

July 19, 1973

Ted Ward Consortium Coordinator 2]3 Erickson Hall Michigan State University East Lansing, Mich. 48823

Hello Ted,

I am enclosing both flight and room receipts as you requested at the July ]7 meeting of the Consortium on Auditory Learning Materials.

To my memory meal receipts were not requested. If you need them, please contact ma.

I want to thank you for the total learning experience: I was particulary impressed with your personal leadership skills. The Consortium is fortunate to be influenced by someone with that talent.

sincerely,

Bonnic Wakefield Materials Specialist

enclosure



Teachers College UNIVERSITY OF NEBRASKA Department of Educational Administration

## MIDWEST REGIONAL MEDIA CENTER FOR THE DEAF

Nebraska Hall 175

402-472-2141

Lincoln, Nebraska 68508

BEST COPY AVAILABLE

December 12, 1973

Dr. Ted Ward Great Lakes Area Instructional Materials Center 213 Erickson Hall Michigan State University East Lansing, Michigan 48823

Dear Ted:

Auditory tape #2 came through loud and clear. I like the idea of using the compressed speech technique. We need to apply this approach for the deaf by using video tape cassettes. I haven't figured out how to compress vision, but the format could be similar.

The reason for this letter is to suggest that the Consortium not meet again until after the 1974-75 proposals are written and submitted. As you know, the proposals must be turned in by February 15. I am booked until February 25.

Sincerely yours,

Robert E. Stepp, Jr., Ph.D.

Project Director

RES/edr





## State of Illinois Office of the Superintendent of Public Instruction Springfield, Illinois 62706

BEST COPY AVAILABLE

Michael J. Bakalls Superintendent

December 18, 1973

Dr. Ted Ward, Coordinator Consortium on Auditory Learning Materials for the Handicapped 213 Erickson Hall Michigan State University Eact Lansing, Michigan 48824

Dear Dr. Ward:

As per the consortium assignments, I have enclosed the definitions used on the Illinois input form and an update of the progress on the Illinois projects; also, included is Jacqueline Crain's assignments, the description of auditory learning and the emotionally disturbed and effectively handicapped; and the description of music therapy as an auditory learning task.

If there are any questions concerning the information I have sent you, please write or call. By the way, would you mind asking Joe Levine if he ever found out the source of the Vision Index? I called him about a month ago and am awaiting his answer before I make a final reply to a request.

Thank you for your guidance and help and especially, the Audio Newsletter.

Sincerely,

Argaret Midderer

Statement Commission Statewide Coordinator

Materials Development Team Department for Exceptional

Children

MN: kd

Enclosures

Instructional Materials Center 1020 South Spring Streat Springfield, Illinois 62706





the ofic state university 220 west 12th avenue, columbus, ohio 43210/(614)422 7596

March 11, 1974

Mr. Bill Anderson Consortium on Auditory Learning 213 Erikson Hall Michigan State University East Lansing, Michigan 48824

Dear Bill:

The meeting was a real success! I want to thank all of you for allowing me to participate.

Enclosed is a copy of my airline ticket and a list of expenses. I will write a check to The Ohio State University covering my expenses so you will reimburse me directly. This is the customary procedure for Ohio State.

I'm looking forward to the next meeting of the Consortium.

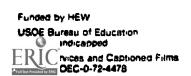
Sincerely,

Aleki C. Nickles, Ph. D.

Coordinator, Early Childhood Projects

AN/ds

Encl



## THE PENNSYLVANIA STATE UNIVERSITY

School Psychology Program 207 CEDAR

UNIVERSITY PARK, PENNSYLVANIA 16802

Department of Special Education

Developmental and Remedial Reading ...

Education of Exceptional Children

Speech Pathology and Audiology

School Psychology Program

March 11, 1974

BEST COPY AVAILABLE

Area Code 814

865-7523

Dr. Ted Ward 312 Erickson Hall Michigan State Univ. East Lansing, MI 48824

Dear Dr. Ward:

Thank you for an interesting and eudcational meeting. I was very impressed by the directions and organization of the Consortium and hope that in the future I can be of assistance.

Attached is a bill for my expenses incurred Thursday, March 7, 1974, as you requested:

\$111.91 - plane fare 40.00 - car travel

\$151.91 TOTAL

With warmest personal regards,

Signey R. Miller

dsp enc



## The ERIC Clearinghouse on Handicapped and Gifted Children

March 14, 1974

#### **MEMORANDUM**

To:

Members: Consortium on Auditory Learning Materials for

the Handicapped

From:

Carl F. Oldsen

Subject: Descriptor Justification Form (DJF) for Thesaurus of ERIC

Descriptors

Enclosed is a copy of the current DJF in use by the ERIC Lexicographer's office for the input of new or change in scope of the present ERIC thesaurus terminology. As you can see, it is a rather formidable procedure primarily to discourage indiscriminate changes. However, we will be happy to assist in acting as the conduit for terms you wish to send to us. Please pay particular attention to the area where it asks for references in the literature. It is necessary for this to be cited and your providing that reference will be appreciated.

If you have questions please feel free to call or write directly.

The Thesaurus of ERIC Descriptors is updated monthly for Clearinghouse use and as copies are available we will be happy to share them with you.

Included below is the descriptor and identifier counts for the instructional and professional materials thesauri we are currently working with.

Instructional Materials Thesaurus, 701 terms, 552 descriptors, 353 of which are in ERIC. 149 identifiers.

Professional terms from above thesaurus has 688 terms, 601 descriptors, 505 of which are in ERIC, 87 identifiers.

Enclosure

CFO:re







## State of Illinois Office of the Superintendent of Public Instruction Springfield, Illinois 62706

Michael J. Bakalis Superintendent

March 20, 1974

Mr. Bill Anderson Michigan State University 213 Erickson Hall East Lansing, Michigan 48824

Dear Bill:

I would like to thank you for attending our listening skills meeting. Your presence added a great deal, in that the committee members gained a clearer understanding of how our project can interlock into the Consortiums'.

If we can be of any assistance in the final aspects of your project, please feel free to contact us.

Sincerely,

Bobbie S. Cheaney

Instructional Materials

Specialist

BSC: zb

Instructional Materials Center 1020 South Spring Street Springfield, Illinois 62706

Bill, if possible would you forward the reinbursement check for my lodging at the O'Hara International to my home address:

107 West Lawrence Springfield, Illinois







## BEST COPY AVAILABLE

the ofio state university 220 west 12th avenue, columbus, ohio 43210/614)422 7596

March 28, 1974

Mr. Joe Levine
Coordinator: Media and Materials
Development Unit
213 Erickson Hall
Michigan State University
East Lansing, Michigan 48823

Dear Joe:

Enclosed are your questionaires, I do hope they reach you in time. You caught us during the springbreak so they're a little slow getting back. I'll send the others along as soon as they are returned to me.

One of the girls here has sent your call for papers out to people she knows. She has worked with the blind and is extremely interested in the consortium activities.

Keep me posted.

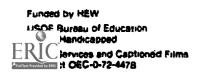
Sincerely,

Aleki C. Nickles, Ph. D.

Coordinator, Early Childhood Projects

ACN/ds

Encl



THE PENNSYLVAN - - -

LVAN TO THE TOTAL CONTRACTOR

207

Department of Special Education

March 29, 1974

Carl F. Oldsen ERIC Clearinghouse CEC 1920 Association Dr. Reston, VA 22091

Dear Mr. Oldsen:

Thank you for your memorandum of March 14, 1974, on procedures for submitting material for the ERIC Thesaurus.

As part of the Consortium on Auditory Perception and learning Materials, we have actively participated with other individuals from a number of universities in developing descriptors and identifiers. We believe the work of the Consortium will advance the state-of-the-art in the auditory field.

We further propose that a meeting of the Consortium and ERIC Clearinghouse officials be held so that the process of updating the ERIC file could be accelerated. We are fearful that unless a procedure is developed for including some of the Consortium's work in the ERIC file, many duplicate efforts will occur—costing considerable money—before others in our discipline become familiar with the Consortium's work. Obviously, this meeting could also involve a review of descriptors and identifiers submitted by other interested parties.

Thank you for your time and interest.

Most warmly,

Sidney R. Miller

Curriuclum 'Development

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# State of Illinois Office of the Superintendent of Public Instruction Springfield, Illinois 62706 April 22, 1974

Michael J. Bakalls Superintendent

> Mr. Bill Anderson 213 Erickson Hall East Lansing, Michigan

Dear Bill:

Enclosed find the material identification forms which our committee on listening skills completed at your request. In reviewing the forms I found that the committee members neglected to fill out the forms completely.

We hope this information will assist you in your project.

R.H. F.

Bobbie S. Cheaney
Instructional Materials

Specialist

BSC: zb

Instructional Materials Center 1020 South Spring Street Springfield, Illinois 62706



#### SPECIAL EDUCATION INSTRUCTIONAL MATERIALS CENTER

UNIVERSITY OF WISCONSIN-MADISON 2805 MARSH LANE MADISON, WISCONSIN B3706

Office: (608) 263-5843 Director: (608) 263-5860



May 31, 1974

Mr. William Anderson Great Lakes Region SEIMC 213 Erickson Hall Michigan State University East Lansing, Michigan 48824

Dear Mr. Anderson:

Enclosed are copies of Auditory Instructional Material Indentification Information forms which our staff have completed for materials which we believe may be of assistance to you for addition to your listing of auditory learning materials.

There may be some overlap of materials you have already identified, but we hope there are some which will be new additions. We have used our own judgement according to criteria gathered from the Auditory Consortium, of which our director, Dr. James J. McCarthy is a member, for deciding which materials would be useful for your project. This work, as I mentioned to you on the phone, is part of a project of ours for identifying materials for severly retarded children. We have a total of approximately 300 items identified. Please let us know if you would like us to send you copies of the information sheets for the rest of the materials for your examination.

Thank you for sending the copy of the catalog from which you are using for your materials and the information booklet entitled, "Classifying Auditory Instructional Materials." We will be using these as a resource in developing our own catalog of materials, and we look forward to receiving the list of your auditory materials.

Sincerely.

David A. Logan Library Manager

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DAL/jd Enclosures

MEMBER: SPECIAL EDUCATION INSTRUCTIONAL MATERIALS CENTERS/REGIONAL MEDIA CENTERS NETWORK



## SPECIAL EDUCATION INSTRUCTIONAL MATERIALS CENTER

UNIVERSITY OF WISCONSIN-MADISON 2805 MARSH LANE MADISON, WISCONSIN 53706

Office: (608) 263-5848 Director: (608) 263-5860



July 19, 1974

Mr. William Anderson Great Lakes Region SEIMC 213 Erickson Hall Michigan State University East Lansing, Michigan 48824

#### Dear Mr. Anderson:

Enclosed is the request for information concerning availability of publications from your Center which I mentioned to you on the phone a couple days ago. I appreciate your efforts in following up on this inquiry.

Thanks again for your assistance with information about the catalog format for the Conscrtium on Auditory Learning. We are using the information as a guideline for producing our catalog of educational materials for use with severely retarded children.

Sincerely.

David A. Logan Library Manager

David A Logan

DAL: ja

Enc. 2





213 Erickson Hall Michigan State University East Lansing, MI 48824

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## **NEW PRODUCT REPORTS**

AUDITORY LEARNING MATERIALS FOR HANDICAPPED CHILDREN

The work presented herein was performed pursuant to a Grant from the U.S. Office of Education, Department of Health, Education and Wallars. However, the opinions expressed herein do not necessarily reflect the position or policy of the U.S. Office of Education, and no official endorsement by the U.S. Office of Education should be inferred.



## **NEW PRODUCT REPORTS**

### INTRODUCTION

During the year, the Media and Materials Development Unit had an opportunity to investigate a number of auditory instructional materials designed by staff members. It was felt that the experience of the staff in the examination of commercially available auditory instructional materials could provide a strong basis for the extensive design of new materials. Reports outlining the design of each new material and the results of field testing are included in this section. The materials described are:

A Job For You (Page 1) - A material designed by staff to create an awareness of the changing roles of men and women in the world of work.

<u>Audio/Visual Tell A Story</u> (Page 9) - A material designed by staff to probe innovative uses of audio flashcards and stimulate language.

Favorite Foibles (Page 33) - A material designed by staff to aid children in identifying personality characteristics that lead to inappropriate behavior.

Understanding Ourselves and Others (Page 41) - A material designed by staff to provide preschool children an opportunity to cope with stressful everyday situations.

Decision Making: What Do You Think... (Page 59) - A material designed by staff to build decision making skills in the affective domain.

Gorgols (Page 67) - A values-related musical story designed for elementary aged children. This material was loaned to the Media and Materials Development Unit by the producer for evaluation.

Use of Environmental Sounds to Elicit Language (Page 71) - A staff report on a study that examined the use of materials with environmental sounds to assist in attention, awareness, and verbalization.



## "A JOB FOR YOU"

## William A. Anderson

## Introduction

The first step in the career education process is the career awareness phase where the objective is to help all individuals become familiar with the values of a work oriented society. It exposes individuals to a variety of work experiences so that they know and understand those that exist. Career awareness does not seek to impose any particular set of work values; rather it simply assumes that a person cannot develop his/her own work values unless he/she is familiar with those held by others and understands their basic effects upon individuals and upon society.

Unfortunately, there have been many artificial barriers erected to prevent men and especially women from exercising the full amount of career options available to them. Via legislation and corporate consciousness, some of the barriers are being lowered and in some instances, removed; yet many barriers still remain.

There is a need for instructional materials to create an awareness within the elementary student of the new range of career choices emerging for men and women. The auditory learning material described below is an attempt to make a small contribution to the design and development of such instructional materials.



## Material Design

"A Job For You" was designed to be used with students of the upper-elementary level. It was designed to create an awareness of the new range of career choices emerging for men and women. Its specific objective is as follows:

Given descriptions of different occupations in the world of work, the student will be able to demonstrate an awareness of the changing job roles of men and women by identifying those occupations presently open to both sexes, for men only and for women only so well that the student correctly identifies eight of the ten occupations presented in the posttest.

In operationalizing the above objective, a pretest was given to each student where he/she was asked to state which of the ten occupations presented were available for men, women or for both sexes. The student was then asked to listen to a brief interview with a lady carpenter and a male telephone operator. These people discussed their job and some of the unique aspects of being a female in a traditionally male-oriented occupation or vice-versa. At the end of each interview, the narrator asked questions designed to probe the student's current beliefs and values about jobs and gender.

At the completion of the auditory instructional unit, the student was given a posttest similar to the pretest (but with different occupations) and asked to classify each as being an occupation for females, males or both sexes.

## Material Use

The material was designed to be used either as an instructional unit with a group of students, or with a teacher and an individual student. The material was designed to be used with



a wide variety of learner audiences. The narration is constructed so as not to rely heavily on visual stimuli, however there are pictures of the two people interviewed at their jobs. The two jobs presented are those that certain handicapped students could pursue as an occupation. In general, the material was designed to be used with as wide a range of students as possible.

## Field Test Information

"A Job For You" was field tested at three different sites: Michigan School for the Blind, Waverly Learning Center, and Bailey Elementary School. Three different evaluators used the unit with a total of ten different students in individualized settings. In all instances, the pretest—unit presentation—posttest procedure was followed.

From the field test evaluation form used to record student behavior during the instructional unit, it appears that all students attended well to the information presented in the tape. Forms report numerous student interactions to material presented in the unit and little ambient behavior was recorded. As for pre/poct test results, seven of the ten students met the 80% accuracy criterion established in the objective. All but one of the students demonstrated posttest results approximating the desired behavior. In short, based upon an immediate posttest, the students tested appeared to demonstrate an awareness of career opportunities available to both men and women without regard to artificial career barriers.



## Summary

As stated above, "A Job For You" appeared to achieve its stated objective. It must be noted, however, that the evaluation procedure used cannot be considered as statistically valid. If time had permitted, a more accurate measure of behavioral change would have been to test the students again after their initial posttest responses. This was not possible, however.

Specific recommendations for improvement might be to include more examples of occupations available for handicapped audiences and to construct a more valid evaluation procedure to measure behavior over time.

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### SCRIPT DRAFT

Music fade-in/out

Discussion between two kids playing house:

Girl: Ya' wanna play house?

Boy: Okay. I'll be the father and go to work and you be the mother and stay home and take care of the kids.

Girl: Why do I have to stay home? I wanna go to work too.

Boy: No, girls have to stay home.

Girl: Do not

Boy: Do too

Girl: Do not...(fade out as they argue)

Music fades back in (5 sec.) then out.

Male: A long time ago, kids about your age already had a pretty good idea of what they were going to be when they grew up. If you were a boy, you usually worked in the same kind of job as your father...or maybe you even worked with your father and took over his business when he retired.

Female: And if you were a girl, well, you probably didn't even think about getting a job. In those days, only poor girls worked, and they worked in jobs such as secretaries, nurses and in the factories. But most women stayed at home and cooked and sewed and took care of the children while the husband went to work.

Male: Today, however, a lot of the old ideas about jobs are changing and kids are choosing the jobs they would like to do most, and not the jobs other people have chosen for them. Have you thought about the kinds of jobs you would like to do when you grow up? I'll bet you can come up with a pretty good list.



Female: But think about this: some people still believe that there are some jobs that are just for girls and other jobs that are just for boys. For example, do you think that all nurses are women? Well, did you know that a lot of boys are nurses...and secretaries and telephone operators.

Male: And that a lot of girls are carpenters, engineers, and business executives.

Female: As you think about what you want to do when you grow up, do you think only about what some people think of as "boy's work" or "girl's work," or do you think about all the jobs that are open to you?

Let's talk with two people who have some interesting jobs and hear what they have to say about "boy's work" and "girl's work."

(Insert of Sandy, lady carpenter, in construction setting.)

Sandy: I wanted to fix up my apartment and I didn't have too much money, so I started building bookshelves, book-cases and kitchen cabinets. They turned out so well that one of my friends suggested that I do this as my job.

Female: That's Sandy, and she has a job that's different from the kind most girls have...she's a carpenter.

Sandy: I've made closets, coffee tables, kitchen cabinets, bathroom cabinets...well, about anything. Where I work right now I'm working with all men. With the exception of hauling huge pieces of wood, women can do about anything a man can do as far as carpentry goes. When it comes to cutting lumber, you have these great power tools. You don't need strength.

Female: Sandy's job is a job that is generally considered a man's job. How do you think she would feel about having a husband who had what many people think is a girl's job? Let's listen.

Sandy: If my husband was say, a secretary, gee, I would think that would be great. I would have a lot of respect for a man who can stand up to the pressures of being a secretary. If he wants to be a secretary, I think that's the greatest thing in the world.

Male: Sandy chose her job as a carpenter because it was one she liked and she didn't pay attention to people who said being a carpenter is "boy's work." People like Sandy are helping others to think over old ideas about what is "boy's work" and what is "girl's work."

- 1) Can you name some jobs where you've seen girls working at a so-called "boy's job?"
- 2) Do you know a girl who has a job that is considered "boy's work?"

#### (PAUSE)

Sound of dialing, telephone buzzing and being answered by a male voice, "This is the operator, may I help you?"

Male: Have you ever heard of a male telephone operator?
Well, let's talk with Larry to hear what he says
about being one of the few male telephone operators
in the United States.

Larry: I guess two years ago I never would have ever dreamed about being a telephone operator. But one of my friends got a job as an operator and he started telling me what he did and I got interested and applied.

The training I went through was really great. I've always liked helping people and I guess being a telephone operator is one way to do it.

The job is really interesting too, ya' know. Like last week I helped a lady place a call to Viet Nam, and another person had an emergency and I had to call the fire department for her.



Some people have kidded me about being a telephone operator and you get used to it. I don't think they really understand why I took the job. But I like the work and sooner or later most of my friends understand.

Female: Larry is another person who has looked beyond those jobs considered "men's work," and found an exciting and rewarding job.

- 1) What are some jobs that boys can have that they don't generally have?
- 2) Do you know some boys or men who have so-called
   "girl's jobs?"
- 3) Do you think you would like a job like Larry's?
  (PAUSE)

Male: There's a lot of changes taking place right now in jobs around the world. Did you know that in Russia most of the doctors are women?

Female: Or that in New York city many of the part-time secretaries and office girls are actually men?

Male: That's right, all kinds of jobs are opening up to both boys and girls because people are beginning to change their ideas about what is "boy's work" and what is "girl's work."

When you think about what you want to be when you grow up, look at all the jobs around you and see which ones you like.

And don't let old thinking stop you from taking the job you like; you make the selection of the job for you.

Fade in music for 5-10 seconds, then out.



## "AUDIO/VISUAL TELL A STORY"

#### James W. Fleming

The "Audio/Visual Tell-A-Story" study was designed to study the responses of elementary age pupils to stimuli of an auditory and visual nature. Sound effects or pictorial representations of specific sounds were presented as stimuli and the subjects were asked to tell a story using the stimuli. Non-verbal sounds were selected from various "sound effects" records available commercially.

The sounds were recorded on audio flashcards. The audio flashcards used in the study each contained four separate recording tracks. A single sound was recorded on each track. The audio flashcard reader utilized was one produced by Electronic Futures Incorporated (EFI). The EFI unit includes four buttons to selectively retrieve any of the four sounds. This equipment was selected for the study due to its unique configuration that allowed selection of sound tracks by the user. Though the equipment has the facility to record sound, this feature was not employed for the study.

Each child that participated in the study was given two tasks. Both tasks were to create stories based on an open-ended stimulus. One task used the audio flashcard to present sound stimulus. The other task used simple drawings to present visual stimulus.

The study was an attempt to measure how well "auditory learners" did with auditory stimulus materials as compared with visual stimulus materials. Another question investigated was "Can language be stimulated as effectively by an auditory stimulus as by a visual stimulus?" The study was also concerned with how well the learners liked the activity and how interested they seemed during the task (i.e., Could the task maintain their interest?). Experimental format, general directions, and data recording sheets were evaluated as to their clarity, conciseness and ease in recording data. Data collection procedures were examined to assess their effectiveness in yielding useful data.

Twenty sounds were used initially to determine which sounds were most easily identified by school children. From this set of twenty, a total of sixteen were selected as beginning non-ambiguous and easily identifiable. Four stimulus sets were developed, each using four specific sounds. Each set had an audio flashcard on which the four sounds were recorded on separate tracks. The set also included visual representations (pictures) of the four sounds. Three sets were used (Set A, Set B, Set C), and a fourth set was used as a demonstration set to introduce the activity to the child. Sounds were grouped for each set as to how well they inter-related with each other.

Set A(a)	Set A(v)	highly related sounds
Set B(a)	Set B(v)	somewhat related sounds
Set C(a)	Set C(v)	not related sounds

- (a) = Audio Tell-A-Story
- (v) = Visual Tell-A-Story



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The four sets of sounds used were as follows:

Set A: Car horn

Train whistle

Train

Railroad crossing bell

Set B: Man snoring Hammering

Jet plane

Woman laughing

Set C: Sawing wood

Squeaky door

Telephone ringing Pouring liquid

Demo: Dog barking

Motorcycle

Dishes breaking

Doorbell

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A treatment procedure was established to standardize and control what specific sets were presented to the subjects. Each child received both the auditory material and the visual material. If a child received a visual stimulus set first, an auditory flashcard set was used next. Twelve specific presentation treatments were developed. All were used in the study at least once.

Trea	tments		
#1	$A(a) \longrightarrow B(v)$	#7	$C(a) \longrightarrow B(v)$
#2	$A(v) \longrightarrow B(a)$	#8	$C(v) \longrightarrow B(a)$
# 3	$B(a) \longrightarrow A(v)$	#9	$A(a) \longrightarrow C(v)$
#4		#10	$A(v) \longrightarrow C(a)$
#5	$ \begin{array}{c} B(v) \longrightarrow A(a) \\ B(a) \longrightarrow C(v) \end{array} $	#11	$C(a) \longrightarrow A(v)$
#6	$B(v) \longrightarrow C(a)$	#12	$C(v) \longrightarrow A(a)$

This procedure ensured equal exposure to all sets and controlled for the difference of receiving one or the other set (auditory or visual) in the same order.

A "Data Record Sheet"\* was developed to standardize data to be collected in the experiment. Each child was also asked, at the conclusion of the experience, to rate the material in terms of how well he liked it and why. All presentations were tape recorded to ensure a more accurate and thorough collection of data regarding the child's response to the stimulus.

The materials were field tested with 16 different pupils for a total of 20 times. Incomplete data on observation sheets and no recording of responses for five pupils narrowed the available data to 11 complete exposures of an intact auditory and visual response. Some pupils were given multiple exposure to the materials. This was done in cases where the student requested it, or as a reward bonus. All pupils used in this study were in regular elementary classes at Bailey School

\*See Appendix for Data Record Sheet example.



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in East Lansing, Michigan. These pupils were considered "auditory learners" as a result of conferences with staff and classroom teachers and a review of classroom performance and achievement scores.

Six staff members used the materials with the children in this study, and two independent observers were used four times to collect behavioral observation data.

A major focus on the field testing data was how well the auditory learners did with auditory stimuli in comparison to visual stimuli. The main questions for which data was collected by the examiners included the number of questions asked by the learner. This was used to assist in evaluating how well the program was organized and how clear the directions were. The questions asked by the learners dealt with specifics about the flashcard reader, whether they could repeat the sounds, and whether they could try another auditory set.

Examples of questions asked by subjects at the beginning of the experiment:

"What are we going to do with this machine?"

"What's this? I want to use it! What do you do?" (EFI machine)

"Are we gonna use this?" (Flashcard reader, EFI)

"What's this thing do?" (Play buttons)

"What does this thing do?" (student record button)

Six of eleven subjects asked to do another auditory stimulus card when they finished one complete auditory and visual presentation. Their comments were:

"Can't I do more?"

"Do you have any more to do?"

"Can we do some more?"

"Are we going to have more, please?"

Only one treatment procedure was scheduled for each meeting with the child. The need to have a second and perhaps a third procedure available with data record sheets seems to have merit. Many examiners were unsure if they could continue, while two examiners used the auditory stimulus cards as a bonus or reward. Unfortunately, there was limited data available from these extended exposures.

In reference to Item 2 on the Data Record Sheet ("Was demo set used?") it was only suggested if the subject encountered difficulty in understanding the task. The demonstration set was only used three times and the results of its use are unclear. Examiners commented:

"Reinaldo's responses mimicked the demo set."

"The demonstration set may have helped to explain the required task."

It appears that the demonstration set should be used to clarify the task, and would also aid in familiarizing the subject with the machine and materials. This points out the need for more experimentation with the program procedure.





In response to Question #3 on the Data Record Sheet ("Did the learner seem interested in the task?") it was rather evident the learners were interested. This was substantiated by the responses of the examiners and the pupils. The audio format was favored by more children than the visual (7 of 11), but three children did indicate they liked to use pictures to tell stories. A sample of comments were as follows:

- (David A.) "I like to listen to the sounds better than I like to look at the pictures."
- (Dick) "It was easier to make up the sound story."
- (Eric) "That stuff was 'neat.'"
- (Independent observer) "David got into the task completely.

  Asked a lot of questions about the equipment. Extremely anxious to do more. His preference for
  auditory may be because he finds more allowances
  for creativity."
- (Examiner) "Robert reacted slowly to the visual component of the Audio/Visual Tell-A-Story, but he really turned on to the audio component. The distractive, active behavior that was in evidence before ceased almost entirely. He asked for the sound cards of two additional sets and these were given as a bonus."

"This is the best reaction to anything he has had. He really enjoyed it."

- (Examiner) "It just worked great."
- (Examiner) "Marie didn't appear to be too excited about making up stories this way. She is a good story teller, but the pictures and sounds appeared to confine her too much. It took a long time to make up the story, and she was very hesitant about doing so."

Perhaps what is needed is more specific directions. An expanded "demonstration model" would assist in orienting the child to the equipment and to the specific task and steps they were to take. The subjects did work more easily and quickly when the "demo set" was used. This was particularly true with the younger children. A note of caution should be made for them to make up their own story after the demo is played. This procedure may assist the nesitant child and not confine them with their story telling.

There were several comments made by the examiners on the data record sheet that also need further investigation:

"I think on the auditory portion there may be too high a level task for some children (2nd graders) to coordinate. (Four sounds with story.)

"The visual picture stories were very concrete and very short."



"Perhaps the use of two pictures or two sounds at first would be more beneficial gradually adding more as child can handle them."

"Appeared to catch on readily, but then used only one sound or one picture. Was it because the directions were unclear or is the task of too high a level for him to sort out components and then put them back together?"

"He/she couldn't remember all four sounds--at least to be able to be used usefully in a story."

These comments suggest a further examination of the materials to assess changes that could be made to alter their difficulty. For the younger child, it might be appropriate to build a story from a single sound. Or, two or three sounds rather than four.

The question (#6) dealing with the "time needed to THINK through story" did not reveal anything in this first study. A more precise timing observation by an observer and a need to tape record the entire session is evident. (Many examiners began their recording when the child began his story.) Perhaps a more specific check list to be completed by someone other than the examiner would assist this problem.

In response to the total number of words used in the story, the following data was reported:

In reviewing the total number of words used in both stimulus sets (auditory and visual), the visual sets stimulated more words than the auditory (7 times out of 13 exposures). The auditory sets produced more words in the stories twice, and four times they were equal in number of words.

The total time used to tell the story favored the auditory stimulus sets seven to five with one neutral (equal).

A look at averages of the thirteen complete samples appears to indicate that "auditory learners" may indeed be able to handle auditory stimulus equally as well as brief, concise visual stimulus. The average length of the auditory stimulus story was 47 words as compared with 51.5 words for the visual stimulus story. Story time averaged 63.7 seconds for the auditory stimulus stories and 39.5 seconds for the visual stimulus stories. Although more time was used for the auditory, it must be remembered that students were inserting the audio flashcards and listening. (Each sound took six seconds to present.)

This study, although limited, did reveal a great deal of information on design format and data collecting. Revisions of the study seem appropriate for further examination.

- 1) A more complete data record sheet is needed.
- 2) Tape recordings of each entire session are necessary.
- 3) A second person making behavioral observations would ensure and assist data collecting.



- 4) An expanded program moving from one stimulus up through four or five stimuli.
- 5) The demonstration set should be used in all sessions with new subjects.

## SUMMARY

The Audio/Visual Tell-A-Story materials did elicit very favorable responses from the learners. Some of this is due to the gadgetry of the audio flashcard reader and some is due to the non-threatening aspects of the program. There were no right or wrong answers, although several pupils wanted to know what the specific sounds were in the auditory format.

Although the learners could deal rather quickly with the visual format sets in developing and telling a story, the stories did not seem as unique or creative as the stories developed by the auditory stimulus. Most learners asked to do more than one program at each meeting with the field tester. This type of activity did gain the attention of the learner for an average of 25-30 minutes.

Further studies are now needed in which verbal sounds (phrases/sentences) are used along with their visual counterpart or representation. Another area of investigation is perhaps using only one, two, or three sounds or pictures. A combination of a visual and auditory stimulus format should also be investigated. These ideas may assist subjects in making a smoother transition from one stimulus to the next and incorporate the sound or visual stimulus more easily.

Data should be recorded and reviewed by the project coordinator immediately following the exposure to ensure that data is collected and complete. There is a great deal of favorable data and general inclinations by staff members that favors another field testing of similar materials. There must also be samples of other types of auditory learners in special education programs, such as partially sighted, retarded, and children with learning disabilities.



# DATA BY SUBJECTS

	AUDITORY :	STIMULUS	VISUAL ST	IMULUS
	Elapsed Time	Total Words	Elapsed Time	Total Words
David A.	65 60	45 · 38	8 42	30 44
Jay	180 93	43 80	30 58	43 80
Jean	15	18	40	23
Allyson	30	21	15	25
Dick	35	48	25	39
Marie	40	20	20	25
Robert	20	40	45	40
Reinaldo	60	16	30	25
Paul	40	26	30	62
Ray	20	17	20	33
Rick	150	200	150	200

			AVERAGES		
Average '	Time	-	Auditory Story	<b>=</b>	63.69 seconds
Average :	Length	-	Auditory Story	<b></b>	47.08 words
Average '	Time	-	Visual Story	=	39.46 seconds
Average	Length	-	Visual Story	=	51.46 words



V

# REPORT OF REVISED MATERIAL

#### I. REVISIONS

The major changes adopted with the original A/V Tell A Story program dealt with presentation format and response record forms. It was felt that judging from the initial observations and comments made about the program that the following changes would facilitate presentation and implementation. No specific labels were used for the auditory or visual stimuli as with the original program. This was to keep it from being a threat situation and to aid the child in creating his or her own story.

Presenting four stimuli (auditory sounds/visual pictures) each time to make a story with was modified. A developmental sequence using first one stimulus (auditory/visual), then two stimuli, followed by three stimuli, to the original experimental format of four stimuli was followed. This progression from one up to four stimuli was to assist younger children and those older children who exhibited difficulty with multiple stimuli with their initial encounter with the program.

Response record forms were changed in order to get at specific questions and ideas. This involved items such as time for activity, stimuli favored, attention to task, difficulty with multiple stimuli, and the impact of gadgetry with this material. Data was solicited from the examiner presenting the material and the observer using specific response forms. (See attached copy in the Appendix.) Open ended statements and specific checklist statements relating to the activity and observed behavior were used.

A broader sampling was sought with this field test of the A/V Tell A Story. Pupils who were being served at a "learning disabilities" center and a state school for the blind and partially sighted were included with a sample population from an elementary school. All subjects were felt to be stronger auditory learners than visual learners due to a specific deficit or disability. Children ranged from 7 years to 10 years in age. A total of 19 subjects were used in this revision study.

#### II. FINDINGS AND IMPLICATIONS

Some initial confusion with the manner in which the material was to be presented and the data sought made it necessary to demonstrate the revised material. This pointed out the need for a demonstration tape using the material with a specific child. Responses could then be discussed in terms of what was recorded and what specific procedures were used, such as probe questions, to assist the subject.



The data record forms created some questions from the observers and examiners using the material. The open ended questions need further revision and examples to clarify what types of responses might be recorded by observers and/or examiners. Checklist statements did appear to facilitate the recording of specific behavior exhibited by the subject.

When the children were presented with one stimulus (auditory or visual) it was found that 13 of 19 would just identify it rather than tell a story. They would state simply that it's "a dog barking," "a doorbell ringing," or "dog's barking at someone," and "somebody's at the door." Additional probing by the examiner was usually necessary to obtain a story for the stimulus. The first real stories did not come until a child was presented with three stimuli (visual or auditory). Six children at the Stage II level were able to tell a story with only a single stimulus that was judged by the observer and examiner as creative and humorous. Stories of 15 subjects did become more involved when two or three pictures or sounds were used. The subjects would often focus on remembering the four sounds rather than putting them together to tell a story. Five of the subjects were able to incorporate the four auditory stimuli into a complete story.

The number of words used in the stories for one stimulus varied widely from two words "dog barking" up to twenty words or more such as "one day there was a dog who went out to play with some other dogs and he started barking at them." Many of the subjects could make up a story after they identified the sounds or pictures when probed by the examiner to make a story using all the stimuli.

TABLE ONE

AVERAGES DATA FOR NUMBER OF WORDS AND TIME SPENT
WITH SINGLE AND MULTIPLE STIMULI

	AUDITORY S	TIMULUS	VISUAL STIMULUS			
	Average #	Average	Average #	Average		
	of Words	Time	of Words	Time		
One Stimulus	6 words	25 sec.	9 words	l6 sec.		
range	2-17 words	4-45 sec.	2-20 words	4-35 sec.		
Two Stimuli	6 words	39 sec.	10 words	29 sec.		
range	4-23 words	7-70 sec.	3-28 words	7-95 sec.		
Three Stimuli	ll words	56 sec.	ll words	35 sec.		
range	7-38 words	18-90 sec.	6-45 words	10-80 sec.		
Four Stimuli	14 words	65 sec.	40 words	38 sec.		
range	7-95 words	20-120 sec.	11-124 words			



Four sounds appears to be a higher cognitive level task than most children, and perhaps adults, can identify, retain, and incorporate into a coherent story. Seventeen of the 19 subjects were reported as having difficulty with multiple stimuli (three or more). Multiple auditory stimuli was found to be difficult for 14 of the 19 subjects. Ten of the 19 subjects had difficulty with multiple visual stimuli. Four simple pictures, such as were used with this study, did not appear as difficult for most children. The time involved in telling a visual stimuli story versus an auditory stimuli story did vary. This can be attributed to listening time, identification, and memory which is more involved with the auditory tasks.

#### III. RECOMMENDATIONS

The A/V Tell A Story study has served to illustrate several essentials in designing and using an auditory and visual material utilizing sounds and pictures. Classroom use and procedures are but a few of these findings. A material such as this one could be used in various ways by the teacher or consultant. The merits of such a program would perhaps favor fostering language development and creativity. It could also serve as an informal language assessment and memory test. There is a great deal of advantage in not having the child just identify correctly the sound or picture. The threat of right or wrong is lessened and perhaps children can be encouraged to tell about something, not just label it.

Skills involved with this task of auding (listening) include:

- 1. Directing and Maintaining Attention
- 2. Following Directions
- 3. Using Auditory Analysis
- 4. Using Mental Reorganization
- 5. Making Inferences and Drawing Conclusions (Taylor, 1964)

It is felt that these are he major skills focused on with the A/V Tell A Story experiment Items 1, 2, and 3 were completed by the subjects much easier than items 4 and 5. The subjects would often just identify (label) the sound or picture, but were unable to organize into a story. This was found more so with the auditory stimuli than the visual stimuli. One should determine which of the above skills are the primary objective for using the A/V Tell A Story.

Time involved in this activity for the subjects to complete a story from one stimulus up through four stimuli varied from 7 to 15 minutes. The average total time was 11 minutes, with time spent for one stimulus varying from 5 seconds to 30 seconds and 50 seconds to 120 seconds or more for four stimuli. The total time for this type of activity should not exceed 15 minutes unless it is being used in a small group activity.



# TABLE TWO TIME SUBJECT WAS INVOLVED WITH ACTIVITY

Location

Average Time for Activity

Bailey School
Waverly Learning
Center

Michigan School
for the Blind

Range = 5 minutes to 13 minutes

Subjects in the revised study used an average of four words for one stimulus and up to forty words for the four stimuli sets. There were exceptions to this, where one child used forty-four words for the one visual stimulus and thirty-seven words for the one auditory stimulus. The three stimulus sets were often the first complete and clearly related stories. See Appendix for samples of student responses.

If one is intending to use this type of material for assessment purposes, a tape recorder is a necessity to record responses. A specific check sheet for recording specific behaviors should also be used.

Use of both visual and auditory stimuli and progressing in a developmental sequence from one stimulus to four stimuli allows for children to have success. This could be altered for children judged by the teacher to need more than a single stimulus in order to solicit a response to telling a story. The use of four stimuli might also be eliminated for children having difficulty with three stimuli.

Standardization of an activity of this nature may assist the teacher or consultant in determining preference and strengths in relation to auditory and visual learning. The activity was well received by the subjects and they did report they liked it. Observers reported subjects were attentive to the task and all interacted when appropriate.

The use of one stimulus (auditory/visual) should perhaps be eliminated or modified. Seventeen of the 19 subjects simply labeled the stimuli instead of telling a story when presented with the visual or auditory stimuli.



Specific data to be collected is obtained more meadily by a specific statement checklist for this type of activity. Time spent for each individual part of this type of activity does not appear significant. Sounds might be replaced with words for future studies of this type.

The use of the flashcard reader is not a necessity with this activity, but it does facilitate ease in presenting and packaging. Cassette tapes could be used in place of a flashcard reader. A major source which can be used for the sounds are the numerous sound effects records that are commercially available.

The reader should consult the Appendix for sample sheets that serve to illustrate the materials used in this study.





213 Erickson Hall: Michigan Nate Liniversity: East Lanking, Michigan, 4882 5 Couperating With State Departments of Education in Michigan-Indiana-Chic

# AUDIO/VISUAL TELL-A-STORY User Guide

# Description

This program consists of four audio flashcards and four sets of visual stimulus cards.

Each audio flashcard has four sounds recorded on it. This is known as the audio stimulus portion (a) of the Audio/Visual Tell-A-Story program. The visual stimulus portion (v) of the program consists of four pictures that depict the sound producing element found on each audio flashcard.

The purpose of these materials is to stimulate language and creative stories. Each student will be given an opportunity to create two separate stories. One story will be stimulated by the audio flashcard (Audio Tell-A-Story) and the other by the set of pictures (Visual Tell-A-Story).

The contents and label for each set are as follows:

#### Set A

Car horn Train whistle Train Railroad crossing bell

#### Set B

Man snoring Hammering Jet plane Woman laughing

#### Set C

Sawing wood Squeaky door Telephone ringing Pouring liquid

#### Demo set

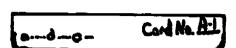
Dog barking Motorcycle Dishes breaking Doorbell

A specific protocol for the use of these materials has been created in an attempt to control some of the major variables that can influence the collection of data about the effectiveness of the materials. It is important that you follow this protocol as exactly as possible.



Uner Guide Audio/Visual Tell-A-Story Page 2

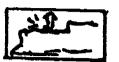
## Example:



Audio flashcard A (modified card, cut in half)









Visual stimulus cards (Set A)

## Evaluator's Role and Procedure

In order to use the Audio/Visual Tell-A-Story program, please refer to the <u>Data Record Sheet</u> that accompanies the program. Item #1 "treatment procedure" tells you what stimulus sets you will use with the student.

#### For example:

1. Treatment procedure: Set A ( a a v) Set B ( a x v)

This tells us you will <u>first</u> use the "A" audio flashcard. Read the direction sheet for the Audio Tell-A-Story to the child. Please make sure you use a response recorder to record all of the child's responses to this program.

When the child has listened to the sounds on the "A" flashcard and completed his story using the sounds, read the directions aloud for the Visual Tell-A-Story (Set B). Please make a note of the order the child places the visual stimulus cards.

Each time you use a set from the Audio/Visual Tell-A-Story program, complete items #1,2,3, and 4 on the Data Record Sheet. If you present a "visual" stimulus set (v) first, you will be using an "auditory" stimulus set (a) second. If you present an "auditory" stimulus set (a) first, you will be using a "visual" stimulus set (v) second. Line #1 on the Data Record Sheet tells you what specific sets you will use and the order they are to be used. Please do not alter this presentation order.

Any time a child does not understand what is asked of him, use the Demo Set and the stories included with this set.

- -- Each child will experience both materials during a single instructional setting.
- --Present the two materials in the order that is required.
- --You will be tape recording (cassette) entire interaction hetween you and the learner. Begin the recording just prior to reading the instructions to the learner. Continue the recording until the learner is dismissed.



User Guide Audio/Visual Tell-A-Story Page 3

- -- Keep idle talk to a minimum.
- -- Read the instructions to the learner exactly as written.
- -- If the learner does not understand the directions, use the demonstration set to model what is expected. (A script accompanies the demonstration set.)
- --If the learner wants to use a sound (or picture) more than once in his story, it is acceptable. However, do not suggest this to the learner. Allow this only if the learner requests it.
- --Complete the Data Record Sheet immediately after the learner is dismissed. Complete the background information section and the first four items. Do not complete the items below the dotted line (items 5-8).
- --Fill in the "Student Name," "School," and "Date" on the cassette after the learner is dismissed. Return the cassette with the Data Record Sheet.

Jim Fleming S. Joseph Levine January, 1974



# AUDIO/VISUAL TELL-A-STORY DATA RECORD SHEET

Pup.	il Name:			Stage:	
Obs	erver:		<del></del>	School:	
Dat	e:			Time:	<u> </u>
1.	Treatment proced	ure: Set	(_a _v) -	Set _	(av)
2.	Was demo set use	d? Yes	No	•	
3.	Did learner seem in the task?	interested	Visual: Very ? 5 4 3		Audio Format Very ? No 5 4 3 2 1
4.	Comments:			1	
5.	Number of questi		arner		
6.	Time needed to T	THINK through st		Format sec.	Audio Format sec.
7.	Time used to TEI	L story.		sec.	sec.
8.	Total number of	words used in			

#### **PROCEDURE**

#### DEMO SET

If the child does not understand the task of creating a story from either the audio or visual stimulus, use the DEMO SET to provide a "dry run." Use the Audio DEMO SET for the child who is having problems with the Audio Tell-A-Story, and the Visual DEMO SET for the child who is having problems with the Visual Tell-A-Story.

Here's what you do:

-- Insert and play the sounds from the DEMO Audio card...
OR

Display the pictures from the DEMO SET of Visual cards...

-- Then tell the following story:

"This is a story about a lady who is washing dishes in the kitchen. While she is in the kitchen washing the dishes she hears a motorcycle" in her front yard. Her dog hears the motorcycle" too and begins to bark." Just then the front doorbell rings. "She starts to run to answer it and she drops some dishes and they break. This scares the dog and he barks" again:



<sup>\*</sup>at these points say the word and play the parallel sound (Audio Tell-A-Story) or point to the parallel picture (Visual Tell-A-Story).

#### AUDIO TELL-A-STORY

(Read the following to the student to introduce the Audio Tell-A-Story.)

Today we will be making up some stories. Your stories will use some sounds. First, listen to the sounds.

(At this point, help the learner listen to the sound by pushing the four buttons individually and not in order.)

You will be making up a story to go with the sounds. You can use the sounds in any order to help you with your story. When you are telling your story, push the button for the sound that goes with that part of the story. Any story is okay. Go ahead and make up your story. When you are ready, tell me your story with the sounds.



#### VISUAL TELL-A-STORY

(Read the following to the student to introduce the Visual Tell-A-Story.)

Today we will be making up some stories. Your stories will use some pictures. First, look at these pictures.

(Spread the pictures on the desk top in front of the child. Note the numbers on the back of each picture. Lay the pictures out in the sequence of these numbers. Left to right as the child sees them.)

You will be making up a story to go with these pictures. You can use the pictures in any order to help you with your story. When you are telling your story, point to the picture that goes with that part of the story. Any story is okay. Go ahead and make up your story. When you are ready, tell me your story with the pictures.



#### A/V TELL A STORY

The following modifications are to be made with the A/V Tell A Story experimental series. These changes are a result of the initial field test findings and recommendations made by staff members.

- 1. Each subject will be presented with one stimulus (visual or verbal) first. They will be asked to make a story with each. The next will be two pictures to make up a story followed by two sounds. This will be continued with three sounds and three pictures.
- 2. Two new response forms are to be used during the session by the observer and experimenter. When the session is completed, it is suggested that the experimenter and observer complete their data forms separately.
- 3. Field tests will be made using these changes with pupils at the Waverly Learning Center, Michigan School for the Blind, and Bailey School. Five pupils from each site will be needed for this final study.



# AUDIO/VISUAL TELL A STORY Examiner's Record Sheet

Exam:	is name		School	
Obse			Time Date	
lst		visual stimulus card " "Tell me a story ab		
	COMMENT			
2nd	Present	audio stimulus "Doorbe "Tell me a story ab		
	COMMENT			
3rd	Present		Hammering" and "Sawing Wood." Sout these pictures."	
	COMMENT			
4th	Present	two audio stimuli, "Po "Tell me a story ab	ouring Liquid" and "Squeaky Door."	
	COMMENT	· • <del> </del>		
5th			"Telephone," "Motorcycle," and cy about these pictures."	
	COMMENT			
6th	and "Do	orbell." "Tell me a st	"Dog Barking," "Dishes Breaking," tory about these sounds."	
	COMMENT			
7th		the following treatment of the following treatme		
	COMMENT			
8th		bject rate the activity	y: Rating	
	COMMENT	· · · · · · · · · · · · · · · · · · ·		
	ECT DID: vity.)	(Check the appropriate	e statements.) (Complete at end of	
	respond	easily to stimuli	attend to the task	
		well with visual tory stimuli	have difficulty with multipl three or more visual stimuli	
	favor au	ditory stimuli	have difficulty with multipl three or more auditory stimu	
<del></del>	favor vi	sual stimuli	curee or more address a serund	144
(3)				

# AUDIO/VISUAL TELL A STORY OBSERVER'S RECORD SHEET

Observer			School		
Date			lime		
		-			<del></del>
Behavioral Observations		C	Clinical	Impress	ions
			-		
				- <del></del>	
			·		
			•		
			· · · · · · · · · · · · · · · · · · ·	- · . · ·	
		-	<del>-</del>		
				_	
			-		
Total Time for Activity _		_			
Time needed for telling s	tories:				
	treatment treatment	_			
	treatment treatment				
	treatment	_			
	treatment				
	treatment treatment				
	rrearment	astna	rour so	GIIGS	



Did learner seem interested in the task?

Visua	l Fo	rmat	<u>s</u>	Aud	io	For	ma	ts
Very 5 4				Very		?		

- 1. The sequential order of one stimuli progressing to four was
- 2. This form is
- 3. The activity  $\frac{did}{did\ not}$  outweigh the learning task for the learner
- 4. Gadgetry played a very

# "FAVORITE FOIBLES"

## Nancy Carlson Cindy Lafkas

#### **OVERVIEW**

This two-part instructional material is designed to aid children in identifying consistencies in imaginary characters' thinking that lead to inappropriate behavior; and through a teacher-led discussion, compare and contrast these consistencies with their own personal experiences.

Short stories featuring an imaginary character with a personality foible are presented on a cassette tape. Interspersed within the story content are questions to which the listeners are to respond freely. The tape then continues with other children's responses to the question (provided as feedback) and then the story resumes.

### **OBJECTIVES**

- 1. Given a personality trait in an imaginary character, the child will be able to identify the same trait in themselves through a teacher-led discussion.
- 2. Given an identified foible, a child will be able to pinpoint consistencies in the characters' thinking that lead to inappropriate behavior and compare and contrast those consistencies with his own personal experiences.

### **PROCEDURE**

1. Introduce the story.

"This is a story about a boy who's always forgetting. You'll be asked some questions during the story so listen carefully to what Fenton is forgetting."



## 2. Play the tape.

Stop the tape after <u>each</u> question. "What could Fenton do?" "What would you do?" Let the children respond freely. Restart the tape. Other children's voices will come on the tape with their answers and then the story continues.

#### 3. Discussion.

Following the story, you may wish to discuss:

- -- How do you feel when you forget something?
- --What do you do when you forget?
- --What could you do if no one could help you?

These are only suggestions. Let the children determine the content and the length of the discussion. With repeated exposure to this type of tape, it is hoped that there will be natural, not forced, internalization.

#### **EVALUATION**

A record is to be kept, by the teacher or an observer, of the child's responses (see Observation Form). After a child-material interaction an optional Summary Statement may be used to examine clusters or types of responses which were identified after the field-testing of this material. A graphic representation of the types of responses given by the child provided an interesting description of his behavior or his anticipated behavior in similar situations. There are no right or wrong responses, but types of responses which cluster in one area may add insight to the teacher's understanding of the child.

#### FIELD-TEST DATA

The original scripts were taped without the children's feedback responses. These original tapes were then played for a group of five Stage IIa\* children and their responses recorded on a master tape. Following this taping session, the stimulus (story-content) tape and responses tape were spliced together.



This completed version was then field-tested with 15 other children (Stages I and IIa) in small groups from regular and special classrooms with learning disabled, visually impaired, and other advantaged auditory learners.

The total time for the material interaction and a discussion is about 10 minutes. It is important to keep the session short and to remain neutral to the children's responses in order to create a trusting atmosphere which will help get children to respond freely.

#### GENERAL COMMENTS

- 1. The characters have different levels of abstract qualities, from very concrete to more abstract, to allow for learning at different stages.
- 2. The children know that any response is welcome and acceptable. The listeners respond to a question and then some other children respond on the tape. The children enjoyed hearing other responses ("I said that, too." "That's a good idea."). It seemed to assure them that many alternatives were desirable and the number of different responses increased after the first taped responses were heard.
- 3. Children can explore many possibilities. The taped children's voices helped here also.
- 4. Through the fictional characters the children feel safe in responding to Fenton or Woody without feeling threat-ened ("What could Fenton do?").
- 5. The children feel free to respond personally if they are ready to. ("What would you do?").



6. The discussion offers another opportunity for expression of personal similarities to the characters, but this is intended to be voluntary on the part of the children. No child should be reprimanded, corrected, or forced to participate.

A script, Observation Form of sample responses, and a Summary Statement Form are included on the following pages.





<sup>\*&</sup>quot;Stages" refer to stages of development that have been defined by the project staff. A detailed examination of the Learner Classification System and the developmental stages can be found in <u>Bridging the Gap Between Materials and Learners: Maximizing Auditory Instruction</u>, Auditory Learning Monograph Series, Consortium on Auditory Learning Materials for the Handicapped, July 1974. Briefly, the stages are characterized as follows:

Stage I - characterized by: egocentric, isolated thoughts, necessity for proximity to learning situation, and individuality of responses.

Stage IIa - characterized by: inconsistent and unpredictable cognitive behaviors, necessity for concrete objects, selectivity in generalizing, and affinity for the obvious.

Stage IIb - characterized by: ability to solve problems if accompanied by concrete objects and sequenced events, integration of self-concept, and selectivity in generalizing.

Stage III - characterized by: ability to solve verbal problems logically, exaggerated concern for self, and emphasizes group relationships.

#### FENTON FORGETFUL

Fenton Forgetful was always forgetting. He hardly ever did anything else.

One day Fenton was walking to school and he said, "I forgot my lunch."

"What could Fenton do?

When Fenton got to school he sat down at his desk and said, "I forgot my reading book!"

What could Fenton do?

This was Fenton's week for taking care of the goldfish in the room. Some of Fenton's friends were looking at the goldfish and then he remembered, "Oh, oh . . . I forgot to feed the goldfish."

What would you do?

Everyone was excited about going to see the fire department. Fenton's friend asked, "Did your mom say you could go?" Fenton looked sad and said, "I forgot to ask her."

What would you do?

When school was over Fenton stopped to play with some friends. When he got home his mother said, "You're late for dinner."

What do you think Fenton said?

What would you say?



# OBSERVATION FORM "Fenton Forgetful"

Student SAM	PLE RESPONSES	_ Observer	Cindy	Latkas	Date	May 1974
Directions:	After each key	word from	the stor	y below	(Lunch, G	oldfish,

#### 1. LUNCH

Response: "Well, he could go to a friend's house for lunch." "Go back and get it." "Tell the lunch room supervisor." "He couldn't eat." "Go home for lunch."

#### 2. BOOK

Response: "Tell the teacher." "Run home and get it." "I wouldn't do any work, jus play all day." "Ask the teacher if he could have another book." "Share with someone

#### 3. GCLDFISH

Response: "Just feed 'em cuz that's the only thing to do." "I'd go tell my mom."
"I'd wait till the kids get out of the way and then feed them, cuź if they bumped you you'd get too much food in there and that could kill them."

#### 4. ASK MOM

Response: "I'd go anyway cuz it's part of school." "I'd go to the office and call.
"I'd just tell her when I got home. She wouldn't care." "Go home and ask her."

#### 5. LATE

Response: "He forgot--I'd say I forgot and tell my dad I'll try better next time."
"I usually tell my mom so I just tell her she must have forgotten I was going."



SUMMARI SIAILMENI

St	udent	Observer	Date
72.2	.s rest	ns: After material-child interaction, onses. This may be a helpful addition have, but is strictly optional.	you may wish to categorise to information you may
<u>CA</u>	TEGORY		FREQUENCY COUNT OF
1.	DEPEN	IDENCY	TYPES OF RESPONSES
	Ex: "	Tell my dad to fix it."	•
	*** ***	Wake mom up and tell her to fix it."	1
		Tell the teacher." Call my mom on the phone."	1
		call my mom on the phone.	la = = = = = = = = = = = = = = = = = = =
2.	SELF-	-RELIANCE	1
	Ex:	'Go back and get lunch."	1
	•	Use my key, open the door, and play	
	•	with our cat.	1
	•	'I'd fix it myself." 'Feed the goldfish."	•
3.		ING SELF FROM SITUATION	
	Ex:	'I wouldn't go to school."	•
		'I'd go over to somebody else's house." 'Get another desk."	1
		'I wouldn't do anything."	•
		- wowani o do difficulty.	,
4.	RECOG	NITION OF SELF IN SIMILAR SITUATION	1
		I wish on a wishbone."	1
		'I wish a lot." 'I do that, too."	1
,		a do chat, coo.	1
5.	UNUSU	AL SOLUTION	!
		Use stilts"	•
		T'd go on trip anyway, cause it's part of school."	•
		part of school."	
6.	REASC	NABLE SOLUTION	•
	Ex: "	Take the test anyway and do your best." Eat lots of good food and then you'll	‡
	91	get taller."	
		Look at the papers or books in the desk to see if they have your name."	
		to see it they have your name.	
7.	RESPO	NSIBILITY FOR OTHERS	
	Ex:	I'd ask them to line up so we could go.	
GE: su	NERAL mmariz	IMPRESSIONS: You may want to note extreme the clusters of types of responses given	raordinary responses and ven.
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# "UNDERSTANDING OURSELVES AND OTHERS"

#### Marsha C. Smith

# Introduction

A need was identified for materials in the affective domain reaching children at all age levels. This material was designed with pre-schoolers (ages 3-6) in mind for an experience in learning to cope with stressful everyday situations. It was designed for use in a group situation or on an individual basis with the normally developing child as well as the child identified as having difficulties in coping.

## Design

The material consists of three parts:

- 1) The first part stresses the child's awareness of his own feelings and his expression of them through actions. There are 12 stimulus situations presented. (Example: "You want to talk to your mother. Right now! But she is on the phone. What will you do?")
- 2) The second part deals with the child's awareness of how his own actions affect the feelings of others in his immediate environment. There are 12 stimulus situations presented. (Example: "You are playing outside with your friends. You throw sand in your friends face. How does he feel?")
- 3) The third part integrates parts one and two and, in addition, attempts to make the child aware that he has several options from which to choose in any given situation. There are four stimulus stories presented in part three.

The material contains:

- 3 audiotape cassettes
- 4 puppets with character hats (puppets are neuter to provide for maximum flexibility and creativity)
- 1 teacher's guide

Each part consists of an auditorally presented stimulus situation to be followed by discussion and then puppet play relating to that situation. The number, order, and length of the stimulus is left to the teacher's discretion.

#### Use

This material was designed to be used as either a unit or in individual sessions as the teacher wishes. If used as a teaching unit, the teacher still has the option of how long the unit will take and how many of the situations will be presented in any given session.



Much depends on the needs and capabilities of the children and the material has purposely been designed for maximum flexibility. Although some guidelines regarding presentation method, responses, puppet play and follow-up activities have been provided, much of the use is left up to the teacher. These guidelines as well as the tapescript can be found in Appendix A.

## Field-Testing

The material was field-tested at three different sites. Three teacher/evaluators were asked to use the material as per set guidelines and as they felt it would be best for their particular children.

A total of  $\underline{22}$  children were exposed to the material either individually or in small groups. Ages ranged from  $3\frac{1}{2}$  - 9 years.

The teacher evaluation generally related to material/child interaction, attentiveness, potential of material from the teacher's viewpoint, and recommendations for revision. Due to the many variables in presentation by the teachers involved as well as the lack of observers, the "Evaluation Form" did not prove to be useful. In the small group situation, even with a tape recording of the session, it was impossible to monitor verbal and physical behaviors of more than one child at a time. Timing and location of field-test sessions did not permit this.

In summary, it appears that this type of material is stimulating for both discussion and puppet play with intermediate (age 8-10) aged children as well as on a one-to-one basis with pre-schoolers. Specific changes or modifications in format as determined by field-testing are listed below.

- 1. An audiotape cassette presentation for preschoolers is probably not appropriate due to the need at age 3 and 4 for repetition and interpersonal contact.
- 2. At the preschool level it seems to be more appropriate for the material to be used on a one-to-one basis than in small groups.
- 3. The material may be most useful with children already identified as unable to cope with everyday situations.
- 4. If used in a group situation, the material seems most effective with some definite structuring of the puppet play. It may be more useful to present each situation in two sessions -- one discussion and one puppet play.
- 5. With some revision of situations (situations more suitable for 9 and 10 year olds), this material will be useful with older children (4th graders). Acting out the situation was especially appropriate with these older children. If used exclusively with children of this age, a separate teacher's guide is recommended.



- 6. With older children the verbal discussion was very on target. The situations presented seemed to be a good stimulus for discussion and the children needed no prodding to enter into appropriate discussion.
- 7. Younger children had difficulty staying "on target" regarding the situation presented.
- 8. With older students, the material seemed to stimulate a desire to do creative dramatics in working out problems.
- 9. Puppet play is difficult for the pre-schooler if he's never had any structured experience using puppets pre-viously. Here again, a one-to-one approach may be more appropriate at first, working into group situations as the children become more aware of what is expected of them.
- 10. Some "free" puppet play is necessary for pre-schoolers before trying to use the puppets in a teaching situation.

In conclusion, it is apparent that specific changes in format (i.e., deletion of cassette tape) and in the teacher's guide (i.e., structure, group size, etc.) should be made. Under specific conditions, the situations and puppet play do seem to promote meaningful discussion. As a language development and expressive language stimulation device as well as a "child integrater" this material appears adequate.



#### TEACHER'S GUIDE

"Understanding Ourselves and Others"

The enclosed set of materials has been developed to help the teacher of preschool children work with them in dealing with their own feelings and emotions, in everyday situations. The Series is organized into three specific sections, each one dealing with a more complex awareness of self.

Part I centers around the concrete awareness of the preschool child in dealing with <u>feelings through actions</u>. For this reason, the question put to the child after each situation presented is "What will you do?" From his response to such a situation the teacher will be able to ascertain how the child is dealing with everyday stressful situations and his own security in dealing with them.

part II is designed to surface an <u>awareness of others</u> to the child. After a child can deal appropriately with the self-centered approach of Part I ("What will YOU do?"), Part II moves further and asks "When I do this, how will it affect those around me?" By making him more acutely aware of the effect his actions will have on the feelings of those important individuals around him, he should have increased awareness of the importance of his actions. The question then, in each situation, is "How does (the other person) feel?"

part III deals most specifically with the importance of combining the child's awareness of a situation, with the understanding that he has many options from which to choose his actions.



Throughout Part III the teacher is urged to stress the fact that in any given situation there is a choice of ways for the child to handle it.

#### Use:

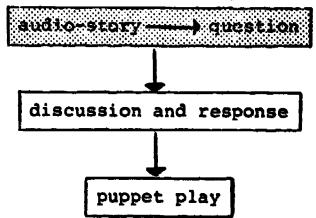
This material has been designed for use on an individual or small group basis with regular preschoolers and/or specific children who are having difficulty expressing themselves and appropriately dealing with stress.

## Materials included:

- -- Three audio-tapes (one for each specific part of the program).
- -- Four puppets and their character hats (puppets are neuter to provide for maximum flexibility and creativity).
- --One teacher's guide.

# Presentation Method:

The general presentation method for each segment of the three parts is similar and is diagramatically shown below.



The teacher will notice that for Parts I and II there are 12 situations presented. These may be used singly or in groups of two or three at one sitting depending on the children involved. The specific situations may be used in any sequence at the teacher's discretion.



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# Helpful Hints

- 1. Let the children respond as spontaneously as possible to the question.
- 2. Notice that the question is <u>not</u> a "should situation" and no stigma should be placed on the child's answer. Helping him work out more appropriate solutions should be a second part of the discussion and a focus of the puppet play.
- 3. Try to emphasize that for each of the situations there are several different ways a person might respond or feel. Emphasize the concept that there is often more than one acceptable solution.
- 4. Discussion is an integral part of this program. Try to reinforce important ideas through the discussion. Specific discussion hints will be listed within each part guide.

# Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation. At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.
- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he felt in that situation. In this way, the puppets will be taking part in a discussion.



# PART I - "What Will You Do?"

#### **OBJECTIVES**

- 1. To learn to express feelings about simple but possibly stressful, everyday sit ations.
- To realize that there are <u>several appropriate ways</u> to deal with any given situation.
- 3. Learning to cope with known stressful situations.

# SITUATIONS PRESENTED

1. Dougie spills juice on your clothes.

What will you do?

2. John wants the toy you have so he grabs it.
What do you do?

3. Susan .s touching your clothes and your hair. You don't want her to.

What do you do?

4. You want to talk to your mother. Right now! But she is on the phone.

What will you do?

5. Your mother is busy in the basement. You want some juice. You are not allowed to get into the refrigerator by yourself.

What will you do?

6. Your mommy is playing with you but then your baby sister cries and your mommy has to go feed her.

What will you do?

7. Your mommy and daddy put you to bed. They read you a story and sing to you. But you are still not tired.

What will you do?

8. You want to play with your blocks but they are up to high for you to reach.

What will you do?

9. Your mommy and daddy are watching the news on television. You want to talk to them. They ask you to please wait until the news is over.

What will you do?



10. You are playing in the yard with your friends. Then your friends go into the street to play.

What do you do?

- 11. You find a dime on the floor. It is your Daddy's. What do you do?
- 12. John messed up your blocks by accident.
  What will you do?

#### **DISCUSSION HINTS**

- 1. After children have responded with what they will do, encourage further thought via--
  - --What else could you do?
  - --What will you do if \_\_\_\_\_ doesn't work
  - --What do you think will happen if you did \_\_\_\_\_?
- 2. Do not impose any feelings of right and wrong on the answers given.
- 3. Probes such as "What might be a better way to handle that?" may be necessary.

# Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation.
  At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.
- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he <u>felt</u> in that situation. In this way, the puppets will be taking part in a discussion.



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9. The children are calling your friend nasty names. Daddy said that wasn't nice.

How does your friend feel?

10. Your mom asks you to throw your trash in the wastebasket.
You throw it on the floor.

How does your mom feel?

11. Your teacher asks all the children to sit quietly to listen. You are very wiggly and call out.

How does that make the teacher feel?

12. Your mother asks you to pick up the toys in your room and put them away. You do.

liow does your mother feel?

# DISCUSSION HINTS

- After illiciting responses to how the other person feels, ask how the child feels as well. (i.e. "How do you feel when \_\_\_\_\_ feels that way?")
- Try to assist children in becoming aware of the fact that their own behavior directly affects the feelings of others.
- 3. Help the children discover that people may react differently in similar situations.
- 4. After the discussion is well under way or nearing completion have the children act out or facially display feelings they have mentioned (happy, sad, angry, confused, wishful, pleased, proud, disappointed, nasty).

# Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation. At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.
- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he felt in that situation. In this way, the puppets will be taking part in a discussion.



#### PART III

Part III is a culmination section in which 3 specific ideas are brought out: 1) Feelings, the childs as well as others and the actions involved, 2) Alternatives and dealing with similar situations in the future, and 3) Learning to express oneself regarding such situations.

## **OBJECTIVES**

- 1. Learning that options are available in a given situation.
- 2. Learning to cope with unknown or stressful situations appropriately.

It is suggested that only 1 situation be presented to a child at each session.

# SITUATIONS PRESENTED

#### Narrative I

You live in a little brick house and you have a nice backyard to play in. In the backyard there are good trees for climbing, there are swings tied from the trees, too. On one tree there is a tire swing. You have a sliding board in the yard, too and a new sandbox. You like to play in your yard. Sometimes you play by yourself outside and sometimes you play with other children who are just about your same size and age. That's fun, too.

One day, when you go outside to play by yourself, you see that there are 3 boys climbing in your trees and one has dragged your sliding board over by the trees. The boys are lots bigger than you are and older, too.

What would you do?

# DISCUSSION HINTS for Narrative I

1. Let children spontaneously come up with answers to "What would you do?" Notice that the question is would and not should. If needed, bring out the should element to help the children understand not all responses are appropriate.





- Some typical responses are below. The teacher might try to draw further responses with "why" or "what could you say, etc.
  - --I'd cry.
  - -- I'd go play with them (the boys).
  - -- I'd tell them to go away; play somewhere else.
  - -- I'd tell my mother to tell them to go away.
  - --I'd go inside to play.
  - --I'd wait for them to go away.

If done in a group, it can be brought out that not all the children will do the same thing and that there is more than one way to handle the situation.

# Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation. At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.
- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he <u>felt</u> in that situation. In this way, the puppets will be taking part in a discussion.

## Narrative II

You are going to the grocery store with your mother. Your mother asks you to stay close to her while she does the shopping. She has many things to buy. She also reminds you not to touch the cans on the shelves. You like to go shopping with your mother. It is fun to go up and down the aisles and to look at all the things to eat. And other things, too.

While your mother is busy looking at things and deciding which things to buy you begin to take some cans of soup from the shelf. All of a sudden all of the cans come tumbling down on the floor. They make a great big crashing sound and everyone looks around to see what has happened.

What will you do?



# DISCUSSION HINTS for Narrative II

- 1. Expect some answers on the order of:
  - -- I ran to my mother.
  - -- I began to cry.
  - -- I ran away so they wouldn't know who did it.
  - --I picked up the cans and put them back on the shelf.
- 2. Probe somewhat to get the child to think a little bit about WHY he chose to do what he did.
- 3. Get some thoughts from the child on:
  - --What did your mother think about that?
  - --What did the other people in the store think when all the cans fell?
  - --What did the person who runs the store think of all the cans on the floor?
  - -- How did you feel when all the cans came down?
  - --What will you do next time something like that happens?
  - --How can you avoid having something like that happen again?

# Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation. At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.
- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he felt in that situation. In this way, the puppets will be taking part in a discussion.





#### Narrative III

It is a very pretty day. The sun is shining and it is nice and warm. I guess it is springtime and you are so happy to be able to go outside to play. While you are playing in the yard a lady goes by your house with her arms full of packages. There are so many that she can hardly carry them all. You wonder what is in them. All of a sudden one of the packages drops on the ground. You watch the lady. She cannot get the package that dropped without dropping all the others. She is having a very hard time trying to pick up the package that dropped.

What will you do?

# DISCUSSION HINTS for Narrative III

- 1. See how many different responses you can illicit from the children if you are doing this in a group situation.
- 2. Again, probe for the WHY aspect of the childrens' responses. Getting them to express the 'why' may make them more sure of their original response and encourage them to respond similarly (or in an improved fashion) another time.

#### 3. Ask the children:

- --What did the lady think when you picked up the package?
- --Did you know yet what was in it?
- --Would you do the same thing again sometime?
- -- What did the lady say to you?
- --What did you say to the lady?
- --How do you think the lady felt when the package fell down and she couldn't get it by herself?
- --Did you tell your mother about what happened? What did she think about it?

# Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation. At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.



- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he felt in that situation. In this way, the puppets will be taking part in a discussion.

## Narrative IV

Since you like to play outside so much, you and your friends play outside nearly everyday - except when it is raining. Today is not rainy and you and your friends are having a wonderful time in the backyard. You usually play in your yard because it is pretty big and your mother and father like you to stay close so they will know where you are and can see you. You are very careful to stay away from the street and your mother and father are proud of you.

After you and your friends have been playing awhile, your friends want to go across the street and way down the block to someone else's yard. You tell them that you are not allowed to go across the street and down the block. They tell you it is O.K. and that you should come and they go across the street. When they get to the other side they call to you. They say, "Come on across. Come and play with us. Your mother won't mind. Come with us."

What will you do?

# DISCUSSION HINTS for Narrative IV

- 1. Since the point of view of the parents is clearly defined for the child in the story, this narrative will bring to surface the child's ability to deal with peer pressure and to stick with his own convictions. Temptations such as this are quite common in childhood. After the child has given his response, try to illicit other responses from him that he might have chosen.
- Discuss WHY one child in the group may have responded differently from another. Be open minded about the children's response remembering that they have different types of parents to whom they will have to ultimately answer. However, do try to remind them about the parents mentioned in the story.
- 3. Bring out the feelings of others as they relate to his decision:
  - -- How will your parents feel about what you did?
  - --How will the other children feel about what you did?
  - -- How did you feel after you decided what to do?



- 4. If the child's decision was to NOT cross the street, you might find out what he decided to do when he was in the yard all by himself.
- 5. Help the child to think of some appropriate ways to deal with coping with such situations in the future:
  - --Tell your parents about what happened and ask them to talk to your friends about what you can and cannot do.
  - --Tell your friends you can only play in your yard or next door and leave it at that.

## Puppet Play - specific hints for puppet play:

- a. Puppets are neuter. Let the children who are to play out the situation choose the puppet they want and attach a character hat to it to suit the situation.
- b. Keep the children "on target" regarding the situation. At first it may be necessary to do some leading, gradually backing out.
- c. Watch carefully to see if the child's response during the puppet play differs in any way from his original response.
- d. A two four minute puppet play is considered sufficient.
- e. After the puppets have reenacted the recorded situation, the teacher might ask the puppet character how he felt in that situation. In this way, the puppets will be taking part in a discussion.



# Suggested Follow-up Activities

# a. Role-playing (ages 3 1/2 - 6)

The extent of the role playing should depend on the abilities and age of the children. This activity is especially useful wit: the "What will you do?" questions. The teacher may decide to choose the parts for the children or let them select the part - again depending on the needs and abilities of individual children.

Watch the children to see if their responses differ from their original comments in regards to the specific situation.

# b. <u>Drawing</u> (ages 5 and 6)

Have the children draw pictures illustrating the specific situation. The teacher may sometimes elect to tell the children to "draw a picture of yourself in this situation," or simply "draw a picture about \_\_\_\_\_\_."

# c. <u>Tell-A-Story</u> (4 1/2 - 6)

For the child who can verbally transfer from the given situation to another similar one, have him "tell a story about "(someone who is sad, someone who is frightened, someone who is proud, etc.) From a 3 or 4 sentence story the teacher may wish to add discussion and then puppet play to these original situations.



EVALUATION FORM

"Understanding Ourselves and Others"

Teacher Reactio re: grow + 0 -Comments Relates to Stimulus 1 0 + Spontaneous Involvement 28 - 0 + - 0 + Length of Interaction Names

ERIC Full text Provided by ERIC

for each so ston where these materials are used.

<u>.</u> \*

# DECISION-MAKING "WHAT DO YOU THINK..."

## Dave Broski Nancy Carlson

#### **OVERVIEW**

This three-unit instructional program is designed to build decision-making skills in the affective domain. More specifically, its purpose is to stimulate critical thinking behaviors free from preconceived sets of learned biases. It is designed for an audience of elementary students operating at a Stage IIb\* or Stage III\* level. The setting is small group with a discussion leader.

This is an auditory material. Short hypothetical stimulus situations have been pre-recorded on cassette tapes. An accompanying set of audio flashcards provides optional responses/ solutions to the problem situations presented on the tape. A group discussion follows. A suggested evaluation scheme and discussion guide are provided. A tape script and accompanying response/solution options for each unit are provided as an Appendix to this paper.

Stage III - characterized by: ability to solve verbal problems logically, exaggerated concern for self, and emphasizes group relationships.



<sup>\*&</sup>quot;Stages" refer to stages of development that have been defined by the project staff. A detailed examination of the Learner Classification System and the developmental stages can be found in <u>Bridging the Gap Between Materials and Learners: Maximizing Auditory Instruction</u>, Auditory Learning Monograph Series, Consortium on Auditory Learning Materials for the Handicapped, July 1974. Briefly, the stages are characterized as follows:

Stage I - characterized by: egocentric, isolated thoughts, necessity for proximity to learning situation, and individuality of responses.

Stage IIa - characterized by: inconsistent and unpredictable cognitive behaviors, necessity for concrete objects, selectivity in generalizing, and affinity for the obvious.

Stage IIb - characterized by: ability to solve problems if accompanied by concrete objects and sequenced events, integration of self-concept, and selectivity in generalizing.

## OBJECTIVE

For students to critically evaluate a set of solutions to a hypothetical situation/problem and through that evaluation to select those solutions least laden with commonly held biases/prejudices.

#### PROCEDURE FOR USE

- 1. First stimulus situation is presented on cassette to students.
- 2. Four solutions/conclusions are presented on the audio flashcard reader.
  - 3. A solution/conclusion is selected by each student.
- 4. Students provide a rationale for selection of a particular solution/conclusion.
- 5. A discussion of each solution is done as a group. There are no right or wrong answers.

#### EVALUATION SCHEME

Although it is emphasized to the students that no answers are right or wrong, some answers have been structured to be less bias-laden than others. They are arranged in a hierarchy for evaluation so that selection of answers at one end indicates an open, bias-free attitude. Selection of answers at the other end indicates a less than open attitude. For example, if four solutions are arranged on a continuum like this:

#### 2 3 4 1

selection of numbers 2 or 3 might be structured to indicate an open attitude; selection of 4 or 1, less open. It is hoped that over several such administrations of these situations, growth



will be seen through a move from right to left along the continuum. Maintenance of responses at the left of the continuum further indicates success.

#### FIELD TEST DATA

This material has been tested with 17 students in groups of two or three per session. Learning disabled, visually handicapped, and students from regular classrooms were involved during the field-testing at three different schools. Fifteen of those pupils involved were assessed to be operating at Stage IIb. Two of those involved during the field-test phase were assessed to be operating at Stage III. Total time for the experience ranged from 15 to 45 minutes.

The following general comments are based on this testing of the material:

- 1. The material successfully stimulates discussions of the situations and available options.
- 2. It is imperative that the discussion leader be open in attitude.
- 3. Kids know the "light" answers. It is important, therefore, that the discussion leader probe by asking, "What would you really do?"
- 4. Because the taped situation is brief, it can be played back to facilitate the discussion.
- 5. Because the responses/solutions are recorded on flashcards, they, too, are easily retrieved.
- 6. Students appear to enjoy the opportunity to discuss their feelings. They are not threatened in this situation by right or wrong answers. Furthermore, they seem complimented



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when an adult asks their opinion.

7. Using the suggested evaluation scheme, growth has been observed by those students participating in the field-testing of this material.

#### DISCUSSION GUIDE

This material depends heavily upon the abilities of the discussion leader to draw out the beliefs and feelings of the students participating in the experience. It is emphasized that no answer is right or wrong; although it is hoped that logical decision-making skills will be developed over time through a series of such interactions. The material is designed to stimulate discussion of why a specific alternative was chosen. Through an open discussion of the student's rationale for selection of that alternative, it is the discussion leader's obligation to probe for rationales based upon emotion or prejudice rather than logic.

It is important, therefore, to probe:

- 1. What do you really think happened? Or, what would you really do in this situation?
  - 2. Why? What reason prompts your decision?
- 3. What in your past experience indicates that your decision is a good one?
- 4. Have you been in a situation like this before? Can you think of other situations like this one?
- 5. What other answers or solutions could you think of in this situation? Do you think they are better?
- 6. Do you think your decision is based on facts in the situation or just on feelings?



# APPENDIX

Tape scripts, responses, and an assessment of the degree of openness of the responses are included in this Appendix.

I.

Why don't you help us solve a problem? While this isn't a real situation, things like this sometimes happen.

\* \* \*

I'm a teacher and I have this problem. My purse is missing. I discovered my purse was missing late in the afternoon right before school was to get out. It wasn't in the drawer where I usually kept it, but I knew it was there before I went to the teacher's lounge. The class was watching a movie while I was out of the room.

I decided to ask the kids in my class if they knew anything about my missing purse. I questioned each kid in the class. No one knew anything about the purse.

The last boy I questioned was a new boy in our class. I didn't know him very well. All the time we were talking he looked out the window. He didn't once look me in the eye!

\* \* \*

#### WHAT DO YOU THINK HAPPENED TO THE PURSE?

- 1. The new boy probably took it.
- 2. The teacher probably lost it.
- 3. Any one of the kids in the class might have taken it.

١,

4. Someone from outside the class probably took it.

\* \* \*

The audio flashcards present four possible solutions. Choose the one you think is best in order to solve the problem.

OPEN CLOSED 2 3 4 1

ERIC Full Text Provided by ERIC

II.

Why don't you help us solve a problem. While this isn't a real situation, things like this sometimes happen.

\* \* \*

One day Johnny and his friend finished their lunches early and decided to go back into the classroom and watch the pet gerbil the teacher had bought for the class. Johnny decided to take the gerbil out of the cage and let it rest in his hands, but as he was taking it out of the cage, the gerbil fell to the floor. The boys knelt down to pick it up, but they saw that it had broken its neck and was dead. Johnny and his friend just looked at each other. Finally, Johnny picked up the gerbil and put it back into the cage. "Don't say anything, please. I don't want to get in trouble," Johnny said to his friend.

After class started in the afternoon, the teacher passed by the cage and saw the dead gerbil. "Does anyone know anything about our gerbil?" the teacher said to the class.

\* \* \*

# WHAT DO YOU THINK JOHNNY'S FRIEND SHOULD DO?

- 1. Tell the teacher what happened immediately.
- 2. Tell someone besides the teacher who he knows will tell the teacher (a tattle-tale).
- 3. Don't tell anyone. Just keep quiet like Johnny asked.
- 4. Try to get Johnny to admit he did it and take the punishment.

\* \* \*

The audio flashcards present four possible solutions. Choose the one you think is best in order to solve the problem.

OPEN CLOSED
4 1 3 2



III.

Why don't you help us solve a problem. While this isn't a real situation, things like this sometimes happen.

\* \* \*

Two boys were looking excitedly at several items in a department store one night after school. After several trips down each isle of the store they finally decided they better get home for supper. Just as they were headed out the door the store manager stopped them and said to one of the boys, "Hey you, wait a minute." He insisted the boy remove everything from his pockets and that's when he saw the jackknife. It was the same kind of jackknife that the store sold, but it didn't have a price tag on it. It looked like it hadn't been used. The boy said he had bought the jackknife before but hadn't used it yet.

\* \* \*

#### WHAT DO YOU THINK?

- Your friend really stole it.
- 2. The store manager really has it in for kids and always tries hard to get them in trouble.
- 3. Your friend had bought it previously like he said.
- 4. He had been looking at it and he walked out forgetting to pay for it.

\* \* \*

The audio flashcards present four possible solutions. Choose the one you think is best in order to solve the problem.

OPEN CLOSED
3 5 2 1



# "GORGOLS"

## MATERIAL DESCRIPTION:

A musically-based story about a creature with the face of a person and the body of a turtle who is actually a little boy with a shell surrounding him. The story tells of his eventually finding love and understanding which leads to losing his shell. On the tape, the narrator tells the story to a large group of elementary children, and their interactions (laughter, singing, etc.) are also in the tape.

# FIELD TEST PROCEDURE:

The material was used solely in group situations—both small group and large class. Aside from the teacher, there was no other instructional component. Prior to the playing of the tape, the children were told they were to listen to the story so that they could discuss it following. The discussion .ocused on: what the story was about, running away from home (a part of the stery presented), and similar experiences the children had felt.

## DATA COLLECTED:

Continuous behavioral observations were recorded on specific children in the group who had previously been assessed as advantaged auditory learners.

Stage	I *	lst grade classroom trainable children (small group)	L.D. Classroom	Regular Classroom 2	Trainable Retarded
Stage	IIa*	2nd grade classroom	2	2	
Stage	IIb*	5th grade students (small group)	2		



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In addition, three teachers completed teacher evaluation forms, and in general evaluators commented on the behavior of the children in the classroom.

#### PREREQUISITES:

The prerequisites children need are process-oriented.

Those children capable of and used to responding openly will gain more from the use of this material.

#### ANALYSIS OF DATA:

The analysis which follows is organized into questions.

Can children be expected to learn from this tape and discussion?

It depends upon the type of children. Those children with a mental age of less than seven are still very concrete. They see the main character as a turtle, and do not understand the transition to a little boy. Children over seven mentally tend to grasp the underlying message more easily. Children around ten mentally usually get the message. All the children learn, therefore, but at different levels.

What types of response can be expected?

During the cassette tape, there is plenty of opportunity for reaction. Usually a child will laugh or clap or sing along with the narrator. In a large group, there may be some very quiet periods (the children are anticipating) interspersed with some more noisy ones. In all our field testing, the children were obserted to be "very attentive," and all interviewed said they liked it.

How long is the experience?

The tape itself is approximally 10 minutes. The discussion following can run from as little as three minutes to as much as twenty. In one classroom, the follow-up activities involving acting out feelings non-verbally involved all 19 children totally for 35 minutes. It probably depends on the level of understanding and the type of commitment to involvement the teacher and the children are willing to undertake.



How much preparation does it take to use this material?

Listening to the tape and reading through the user's guide is strongly recommended. It would help if the teacher knew beforehand the sequence of the story to be able to observe "clues" for later discussion. Some reassurance could be necessary when the tape is playing with the kids. All the teachers rated the tape "very worthwhile," so it must be worth the effort.

# Is the material stand-alone?

This tape has more adult appeal than most materials for children. You and the children may find yourselves referring to "Goryols" long after the tape has ended.

The discussion, however, can be very imports t and should not be slighted. Someone who knows the chil en fairly well should lead the discussion for maximum benefit.

After the discussion, however, the children could listen alone or in groups. Many of the children requested (i.e., "begged") to hear it again and again.

What kind of equipment or extra materials are needed?

Just a cassette playback unit for the playing of the tape. A teacher may want to have some paper handy for follow-up activities, but there is no necessary follow-up except the discussion.

Any extra tips?

Not surprisingly, responsiveness is more apt to be elicited if the children are arranged in a close group, perhaps on the floor, rather than at desks or tables. There may be more movement noticeable when the children are all together, but the tape seems so interesting that this is not usually a hindering factor.

Stage I - characterized by: egocentric, isolated thoughts, necessity for proximity to learning situation, and individuality of responses.



<sup>\*&</sup>quot;Stages" refer to stages of development that have been defined by the project staff. A detailed examination of the Learner Classification System and the developmental stages can be found in Bridging the Gap Between Materials and Learners: Maximizing Auditory Instruction, Auditory Learning Monograph Series, Consortium on Auditory Learning Materials for the Handicapped, July 1974. Briefly, the stages are characterized as follows:

Stage IIa - characterized by: inconsistent and unpredictable cognitive behaviors, necessity for concrete objects, selectivity in generalizing, and affinity for the obvious.

Stage IIb - characterized by: ability to solve problems if accompanied by concrete objects and sequenced events, integration of self-concept, and selectivity in generalizing.

Stage III - characterized by: ability to solve verbal problems logically, exaggerated concern for self, and emphasizes group relationships.

NOTE: This material was loaned by the producer (Educational Design Associates) in a prototype version for examination by the Media and Materials Development Unit. Results of the examination were forwarded to the producer.



# THE USE OF ENVIRONMENTAL SOUNDS TO ELICIT LANGUAGE Phyllis O'Connor

#### **OBJECTIVES**

- --to verbalize words or statements in response to non-verbal (environmental) auditory stimuli
- --- to attend to an auditory task
- -- to increase awareness of environmental sounds

# DESCRIPTION OF LEARNERS

The students were four congenitally blind children, ages five and six, who attend a half day preschool for visually impaired. All have average intelligence.

#### **PROCEDURE**

Materials: Thirty-six sounds recorded individually

on audio flashcards

Equipment: Audio flashcard reader and

Tape recorder (for recording entire session

for later examination)

Setting: Quiet room

The four children were grouped in various combinations during the instructional experiences. Only one session was with a single child. Six sessions were conducted with groups of two to four, during which it was necessary to take turns. For each child in turn, the sound stimulus was presented. The evaluator asked a probing open-ended question, such as "Can you tell me about that sound?" or "Tell me what you heard." If no response was elicited, the sound was repeated and the child was asked a closed question, "What makes that sound?" If a response was given, the evaluator asked further questions (probes) aimed at eliciting more language.



This procedure was repeated with each child in turn, with a different sound each turn, continuing for approximately 15 minutes. Two children had three sessions each, two had four sessions each. Thirty-six sounds were used in random order, with each child receiving each sound at least once.

At the conclusion of each session, each child was asked, "Did you like doing this?" and/or "Would you like to do this again?"

After each session, the evaluator played back the tape and recorded the children's responses on a record sheet—one record sheet per child per session. (Sample record sheet appears in the Appendix.) The evaluator also rated each child's interest as positive (+), indifferent (+), or negative (-). The children's ratings were also recorded as +, +, or - based on their answers to the questions at the end of each session.

#### **FINDINGS**

A. This graph represents the average number of words spoken by each child in response to a single sound stimulus with no probes.

			Sess	sion	
		1	2	3	4
Child		0	1.8	0	2
	B C	0	0 .7	.5	1
	D	0	. 4	.5	<u> </u>

B. The following graph represents the average number of probes (repeated sound, question, command, incomplete sentence)



per sound for each child.

		Sess	jon	
	_1_	2	3	4
Child A B C D	4.2 4 3.2 3.3	3 2 2 4.8	7.2 2.8 3.2 3.3	2

C. Represented here is the average number of words each child said per sound with probes.

			Sess	ion	
		1_	2	3	4
Child	A B C D	2.2 2.7 3.2 5.6	7.5 3.4 2.6 8.2	19.2 4.6 7.2 8.4	13

- D. Types of Responses: The types of responses the children gave can be categorized as follows.
  - 1) echolalic -- repeating the words of the evaluator
  - 2) imitation of the sound
  - 3) identification by noun-naming of object from which the sound emanates, i.e., "bell"
  - 4) identification of gerund--i.e., "bell ringing"
  - 5) identification of sentence--i.e., "The bell is ringing."
  - 6) clarification or description, usually in response to the who, what, when, where questions of the evaluator
  - 7) explanation or expansion--contributing words beyond direct responses to sound or questions, i.e., telling of an exemplary situation

Types of responses in this order (1 to 7) typify earlier (1) to later (7) stages of language development.

The following graphs represent the percentage of each type of response given by each child during the sessions.



Vη

CHILD A	CHILD C
---------	---------

		Sess	sion	
Туре	1	2	3	4
1	0	.08	0	.14
2	.14	0	0	.14
3	.57	.33	. 29	.14
4	.14	.08	. 24	.14
5	.14	0	.06	0
6	0	.33	. 35	.28
7	0	.17	.06	.14

		Sea	ssion	
Type	1	2	3	4
1	.14	.09	.11	-
2	0	.09	0	-
3	.86	. 82	. 22	<b> </b> -
4	0	0	.44	_
5	0	0	.11	-
6	0	0	.11	-
7	0	0	0	_
	•			•

#### CHILD B

		Sess	ion	
Type	1	2	3	4
1	.17	0	.30	0
2	0	0	0	0
3	. 33	.60	.20	.43
. 4	.33	.20	.30	.43
5	0	.20	0	0
6	.17	0	.20	0
7	0	0	0	.14

#### CHILD D

		Ses	sion	
<b>Type</b>	1	2	3	4_
1	.15	.21	0	-
2	0	. 07	0	-
2 3	.54	.50	. 37	-
4	0	.07	.46	-
5	.23	0	0	-
6	.07	.14	.18	-
7	0	0	0.	1 -

E. Ratings: The children's ratings of the experiences were uns imously positive. Every one invariably answered yes when questioned as to whether he liked the experience and would like to repeat it.

The evaluator judged their interest and attention as exceptionally high. The only significant distraction was the audio flashcard reader. Two children wanted to touch and operate the machine each session. They were able to attend to the sounds in spite of this and it did not seem to affect their responses. The other two children ignored the machine completely.

# DISCUSSION

The amount of language, as measured by number of words, did increase. Each child said more, with and without probes during



his last session than during his first. There was no corresponding increase in the number of probes necessary to encourage this increase in number of words. For three children, the average number of probes per sound was the same in their first and last sessions. For one child, the number of probes was reduced by half, and his average number of words continued to increase.

The most frequent type of response was identification by noun. It would be interesting to discover whether and when this is typical in language development of young blind or sighted children.

The arrangement of types of responses from one to seven is hierarchical, and each child's responses did tend to move toward seven over the sessions. Child C's responses especially show this movement, from mostly type three responses in sessions one and two to some four, five and six type responses in session three, with the same number of probes. The changes in types of responses of all four children did not seem to correspond to numbers of probes.

### **IMPRESSIONS**

- A. The children enjoyed the auditory stimulation of these experiences. Deprived of his other distance sense, a blind person usually welcomes any pleasant stimuli received through his auditory channel. The children also enjoyed the "guessing game" aspect of this activity.
- B. There is a danger in using this type of activity. In teaching a child to tell what a sound is or what makes that sound, the result may be increased proficiency at labeling. The



blind child needs tactile/kinesthetic experience to understand that concept.

The sounds used in this activity were carefully selected to be from within the environments of these children. But even with this precaution, there were instances when a child could say, for example, "a cow mooing" and when asked, "Where is a cow?" he touched the audio flashcard reader and said, "in here, in the machine." He was learning to label a sound correctly, but had no concept of cow. It is not that he thought an animal was in the machine, but that, according to his experiences, that was the location from which that sound emanated.

C. The prevalance of identification by noun type responses invites speculation as to language development of congenitally blind children. A sighted person identifies an object mainly through vision, then, whatever action that object does or receives, producing sound, serves to broaden the concept. Perhaps the blind child, not having identified an object through vision, identifies it—as an object—by the sound. For example, to the sound of a ringing bell, a sighted person might say, "bell ringing," while these blind children most often said "bell." Perhaps, to them, a bell is no bell till you ring it.

## CONCLUSION

Using sound stimuli to elicit language was successful with young blind children. Changes did occur over four sessions.

More words were spoken; somewhat higher levels of language were shown. The children attended to the tasks very well and enjoyed



the experience. The use of sound stimuli could be valuable and should be used in conjunction with tactile/kinesthetic experiences.



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RECORD SHEET

Student Name Evaluator			Stage Lea Date	Learner I	
		Response	•		Inappropriate of
Sound Stimulus	# & type Probe	# of words	Parts of Speech	Type	omodest nateration
					•
				·	
Bva +	Evaluator's impression of student's interest and attention Pupill's rating of the experience	of student's experience	Interest and attention	g	•



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